



Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

3EZ5.1D5
THRU
3EZ75D5

Features

- Low Profile Package
Glass Passivated Junction
Excellent Clamping Capability
Lead Free Finish/RoHS Compliant(Note C)("P" Suffix
Designates Compliant. See Ordering Information)
Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- WEIGHT: 0.015 ounce, 0.04 gram
Marking : Cathode band and type number
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

Maximum Ratings @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Units. Rows include Peak Pulse Power Dissipation (Pd), Peak Forward Surge Current (IFSM), and Operating And Storage Temperature Range (Tj, TSTG).

NOTES:

- A. Mounted on 5.0mm^2(.013mm thick) land areas.
B. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.
C.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

3 W Glass Passivated Junction Silicon Zener Diode 5.1-75 Volts

DO-15

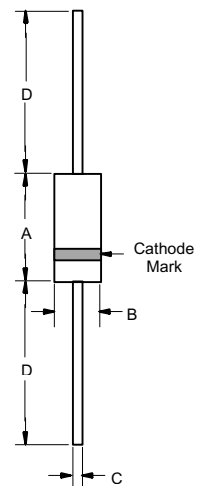


Table titled DIMENSIONS with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A, B, C, and D correspond to the dimensions in the diagram.

3EZ5.1D5 THRU 3EZ75D5

 ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted) $V_F=1.2\text{ V max}$, $I_F=200\text{ mA}$ for all types

Type No. (Note 1.)	Nominal Zener Voltage $V_Z @ I_{ZT}$ Volte (Note 2.)	Test current I_{ZT} mA	Maximum Zener Impedance (Note 3)			Leakage Current		Maximum Zener Current I_{ZM} m A
			$Z_{ZT} @ I_{ZT}$	$Z_{Zk} @ I_{Zk}$	I_{Zk}	I_R	V_R	
			Ohms	Ohms	mA	$\mu\text{A Max}$	Volts	
3EZ5.1D5	5.1	147	3.5	550	1.0	5	1.0	520
3EZ5.6D5	5.6	134	2.5	600	1.0	5	2.0	480
3EZ6.2D5	6.2	121	1.5	700	1.0	5	3.0	435
3EZ6.8D5	6.8	110	2.0	700	1.0	5	4.0	393
3EZ7.5D5	7.5	100	2.0	700	0.5	5	5.0	360
3EZ8.2D5	8.2	91	2.3	700	0.5	5	6.0	330
3EZ9.1D5	9.1	82	2.5	700	0.5	3	7.0	297
3EZ10D5	10	75	3.5	700	0.25	3	7.6	270
3EZ11D5	11	68	4	700	0.25	1	8.4	225
3EZ12D5	12	63	4.5	700	0.25	1	9.4	246
3EZ13D5	13	58	4.5	700	0.25	0.5	9.9	208
3EZ14D5	14	53	5	700	0.25	0.5	10.6	193
3EZ15D5	15	50	5.5	700	0.25	0.5	11.4	180
3EZ16D5	16	47	5.5	700	0.25	0.5	12.2	169
3EZ17D5	17	44	6	750	0.25	0.5	13	159
3EZ18D5	18	42	6	750	0.25	0.5	13.7	150
3EZ19D5	19	40	7	750	0.25	0.5	14.4	142
3EZ20D5	20	37	7	750	0.25	0.5	15.2	135
3EZ22D5	22	34	8	750	0.25	0.5	16.7	123
3EZ24D5	24	31	9	750	0.25	0.5	18.2	112
3EZ27D5	27	28	10	750	0.25	0.5	20.6	100
3EZ28D5	28	27	12	750	0.25	0.5	21	96
3EZ30D5	30	25	16	1000	0.25	0.5	22.5	90
3EZ33D5	33	23	20	1000	0.25	0.5	25.1	82
3EZ36D5	36	21	22	1000	0.25	0.5	27.4	75
3EZ39D5	39	19	28	1000	0.25	0.5	29.7	69
3EZ43D5	43	17	33	1500	0.25	0.5	32.7	63
3EZ47D5	47	16	38	1500	0.25	0.5	35.6	57
3EZ51D5	51	15	45	1500	0.25	0.5	38.8	53
3EZ56D5	56	13	50	2000	0.25	0.5	42.6	48
3EZ62D5	62	12	55	2000	0.25	0.5	47.1	44
3EZ68D5	68	11	70	2000	0.25	0.5	51.7	40
3EZ75D5	75	10	85	2000	0.25	0.5	56.0	36

Notes:

1. TOLERANCES - Suffix indicates 5% tolerance any other tolerance will be considered as a special device.
2. ZENER VOLTAGE (V_Z) MEASUREMENT - guarantees the zener voltage when measured at 40 ms from the diode body, and an ambient temperature of 25
3. ZENER IMPEDANCE (Z_Z) DERIVATION - The zener impedance is derived from the 60 cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT} or I_{Zk}) is superimposed on I_{ZT} or I_{Zk} is

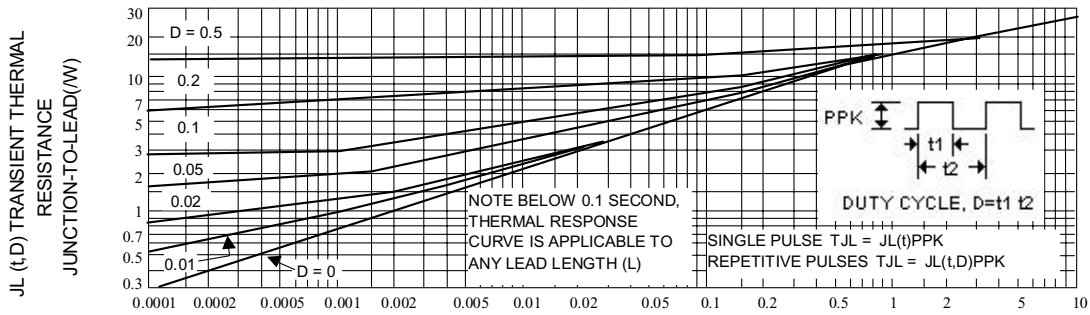


Fig. 2-TYPICAL THERMAL RESPONSE L,

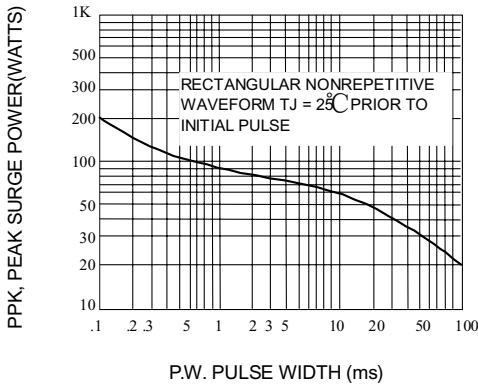


Fig. 3-MAXIMUM SURGE POWER

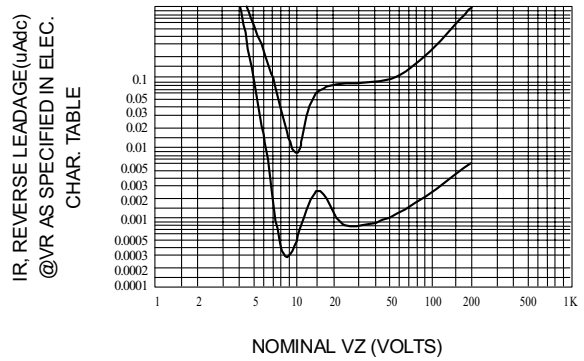


Fig. 4-TYPICAL REVERSE LEAKAGE



Fig. 5-UNITS TO 12 VOLTS

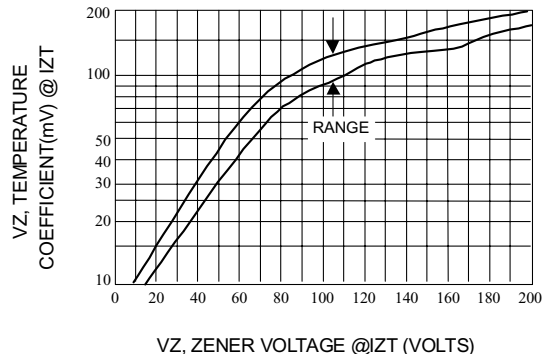


Fig. 6-UNITS 10 TO 200 VOLTS

RATING AND CHARACTERISTICS CURVES
3EZ5.1D5 THRU 3EZ75D5

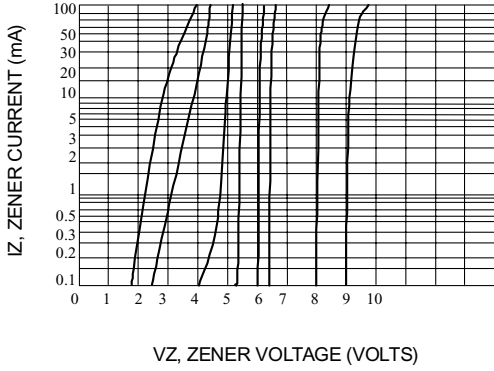


Fig. 7-V_Z = 3.9 THRU 10 VOLTS

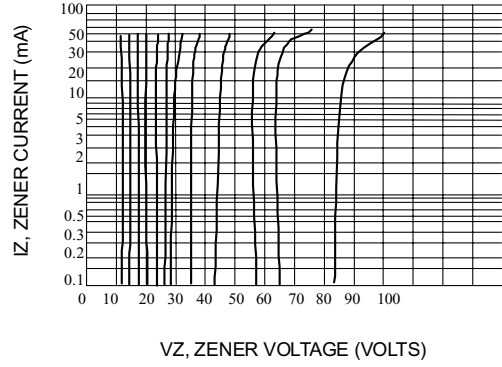


Fig. 8-V_Z = 12 THRU 82 VOLTS

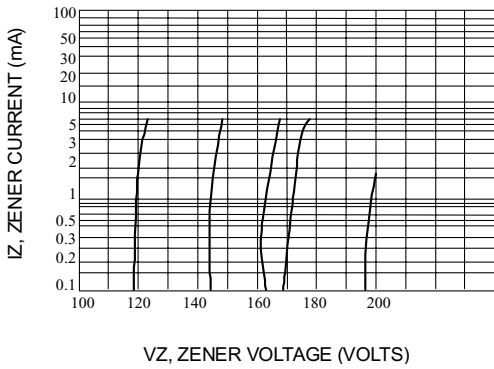


Fig. 9-V_Z = 100 THRU 200 VOLTS

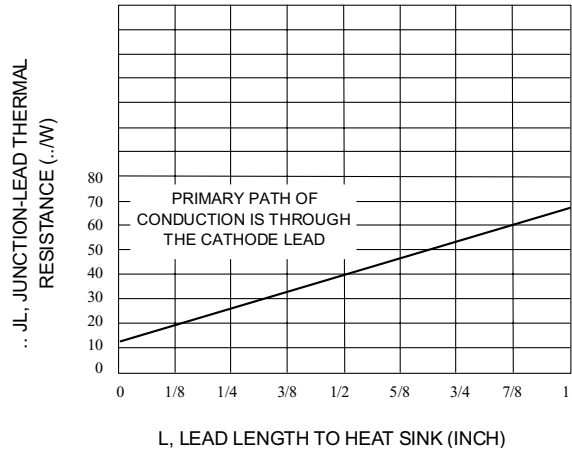


Fig. 10-TYPICAL THERMAL RESISTANCE



Micro Commercial Components

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 4Kpcs/Reel
Part Number-AP	Ammo Packing: 3Kpcs/Ammo Box
Part Number-BP	Bulk: 25Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.