Micro Commercial Components

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SMD22PL THRU SMD210PL

Schottky Barrier Diodes
20 to 100 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- High Surge Capability
- Low Forward Voltage
- Low Profile Package
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Mechanical Data

- Packaging: SOD-123FL
- Marking Code: SMD22PL---M2; SMD24PL---M4; SMD26PL---M6 SMD28PL---M8; SMD210PL---M10;

Maximum Ratings

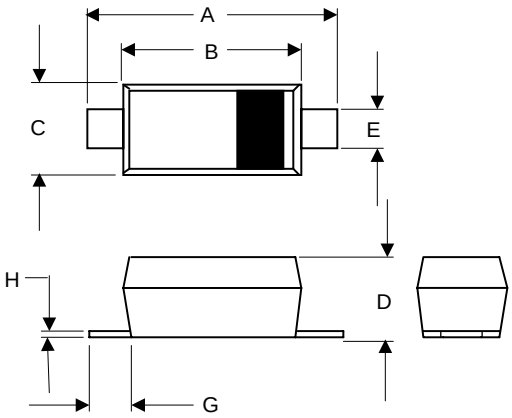
Symbol	Parameter		Rating	Unit
V_{RMS}	Maximum RMS Voltage	SMD22PL SMD24PL SMD26PL SMD28PL SMD210PL	14 28 42 56 70	V
V_{RRM}	Repetitive Peak Reverse Voltage	SMD22PL SMD24PL SMD26PL SMD28PL SMD210PL	20 40 60 80 100	V
$I_{F(AV)}$	Rectified Current (Average) Half Wave Rectification with Resist. Load at T_L=90°C		2.0	A
I_{FSM}	Surge Forward Current,halfsine wave 8.3ms		50	A
R_{thJA} R_{thJC} R_{thJL}	Typical Thermal Resistance(Note2)		60 30 21	°C/W °C/W °C/W
P_D	Power Dissipation		1.68	W
T_J	Junction Temperature		-65 to +125	°C
T_{STG}	Storage Temperature		-65 to +125	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Typ	Max	Units
V_F	Forward Voltag (@2A dc)	SMD22PL~24PL SMD26PL SMD28PL~210PL	--- --- ---	--- --- ---	0.50 0.70 0.85	V
I_R	Maximum DC Reverse Current		---	---	0.5	mA
C_j	Typical Junction Capacitance @f=1.0MHz,Vr=4V		---	210	---	pF

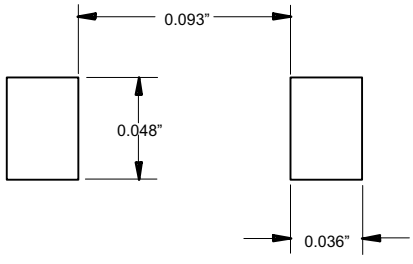
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.
2. Thermal Resistance:PC Board Mounted on 0.2*0.2"(5*5mm) copper pad area.

SOD-123FL



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.122	2.55	3.10	
C	.055	.075	1.40	1.90	
D	.035	.053	0.90	1.35	
E	.020	.041	0.50	1.05	
G	.010	-----	0.25	-----	
H	-----	.010	----	.25	

SUGGESTED SOLDER PAD LAYOUT



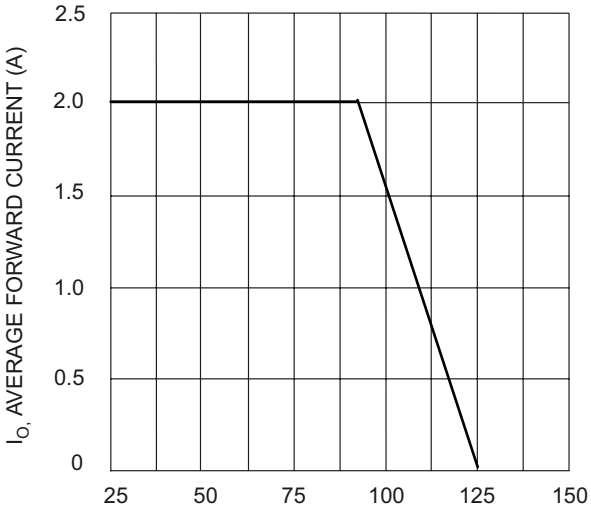


Fig. 1 Forward Current Derating Curve

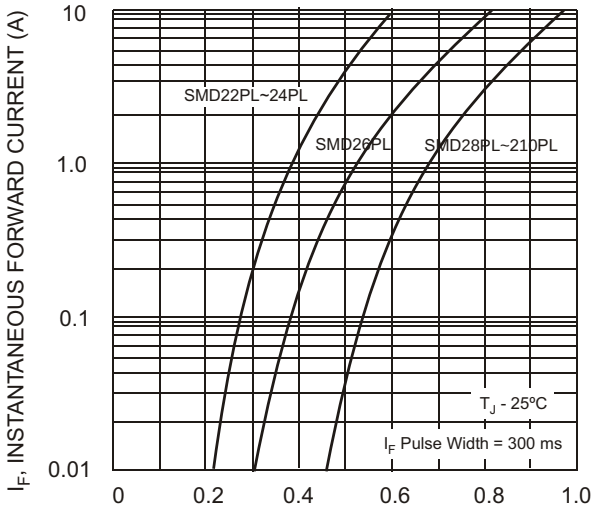


Fig. 2 Typical Forward Characteristics

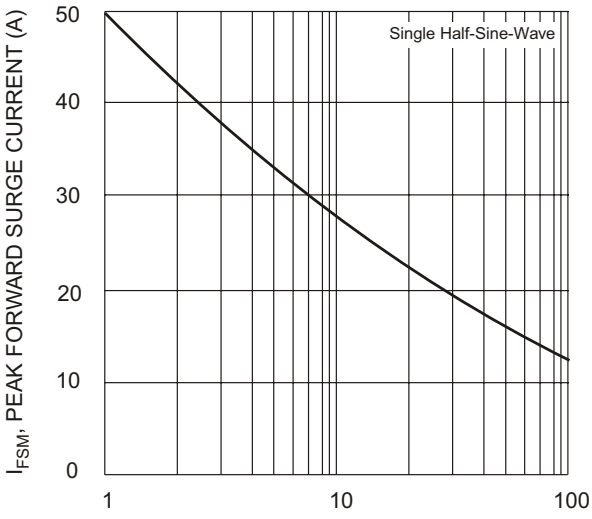


Fig. 3 Max Non-Repetitive Peak Forward Surge Current

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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

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- 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.);

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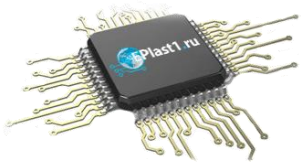
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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