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February 2005



MMSD914 Small Signal Diode



SOD123 COLOR BAND DENOTES CATHODE TOP MARKING: 5D

Absolute Maximum Ratings * T_a = 25°C unless otherwise noted

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	100	V
I _{F(AV)}	Average Rectified Forward Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0 2.0	AA
T _{STG}	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	150	°C

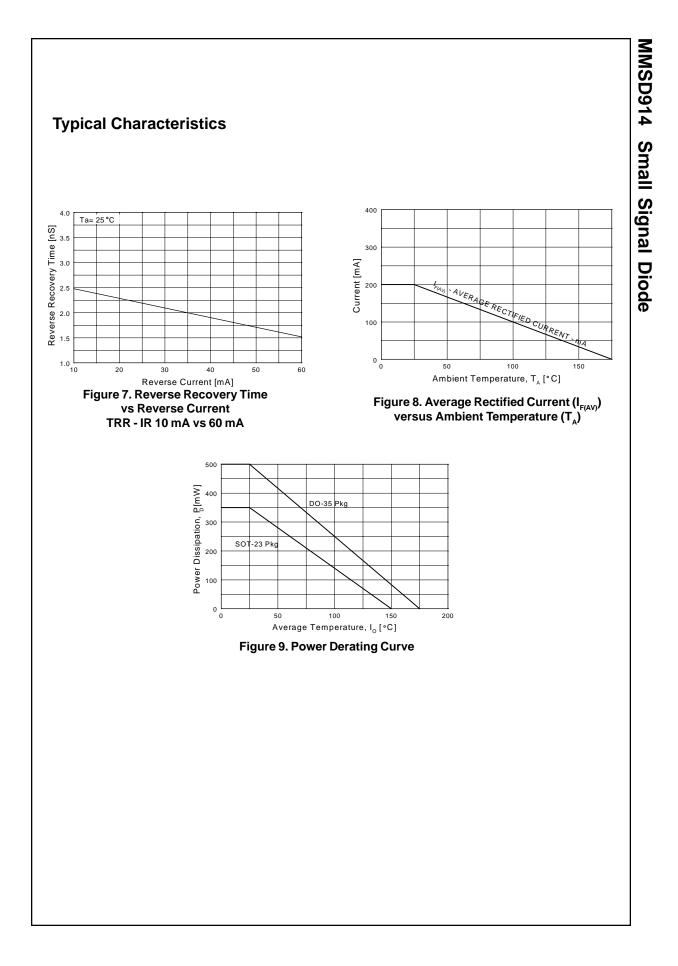
* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

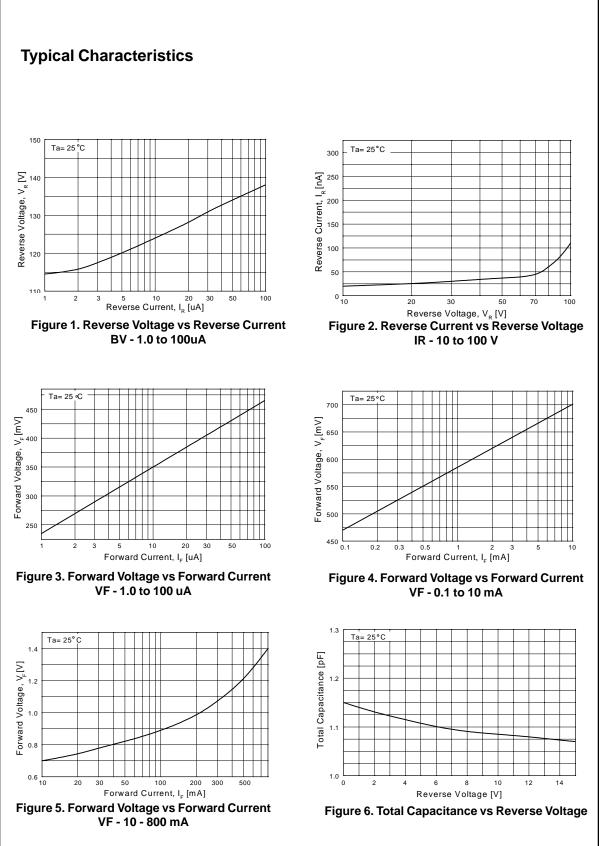
Thermal Characteristics

Symbol	Parameter	Value	Unit	
PD	Power Dissipation	400	mW	
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	312	°C/W	

Electrical Characteristics $T_{c} = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max.	Units
V _R	Breakdown Voltage	I _R = 5.0μA I _R = 100μA	75 100		V V
V _F	Forward Voltage	I _F = 10mA		1.0	V
I _R	Reverse Leakage	$V_{R} = 20V$ $V_{R} = 20V$, $T_{A} = 150^{\circ}C$ $V_{R} = 75V$		25 50 5.0	nA μA μA
CT	Total Capacitance	V _R = 0V, f = 1.0MHz		4.0	pF
t _{rr}	Reverse Recovery Time	$I_F = 10 \text{mA}, V_R = 6.0 \text{V}, I_{RR} = 1.0 \text{mA}, \\ R_L = 100 \Omega$		4.0	ns
V _{F(peak)}	Peak Forward Recovery Voltage	$I_F = 50$ mA, Peak square wave pulse width = 0.1 μ S, 5kHz - 100kHz rep rate		2.5	V





MMSD914 Small Signal Diode

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- 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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