

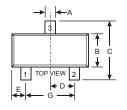
SURFACE MOUNT SWITCHING DIODES

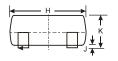
Features

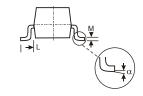
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Marking Code:5D

Maximum Ratings @ TA = 25°C unless otherwise specified

Parameter	Symbol Value		Unit
Repetitive Reverse Voltage	V_{RRM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
DC Forward Current	I _{FM}	600	mA
Recurrent Peak Forward Current	I _{FRM}	700	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 µs	I _{FSM}	1 2	А
Total Device Dissipation	P _{tot}	350	mW
Operating Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C







SOT-23							
Dim	Min	Max					
Α	0.37	0.51					
В	1.20	1.40					
С	2.30	2.50					
D	0.89	1.03					
E	0.45	0.60					
G	1.78	2.05					
Н	2.80	3.00					
J	0.013	0.10					
K	0.903	1.10					
L	0.45	0.61					
M	0.085	0.180					
α	0°	8°					
All Dimensions in mm							



Electrical Characteristics @ TA = 25°C unless otherwise specified

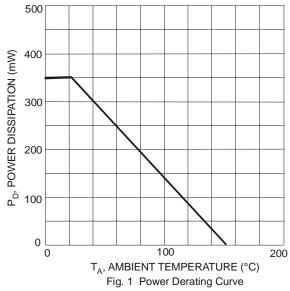
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse Breakdown Voltage	V _(BR)	100			V	I _R =100μA
Forward Voltage	V _{F1}			715	mV	V _F =1mA
	V _{F2}			855	mV	V _F =10mA
	V _{F3}			1000	mV	V _F =50mA
	V _{F4}			1250	mV	V _F =150mA
Reverse Current	I _{R1}			1	uA	V _R =75V
	I _{R2}			25	nA	V _R =20V
Diode Capacitance	C _D			2	pF	V _R =0,f=1MHz
Reverse Recovery Time	t _{rr}			4	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \cdot I_R$

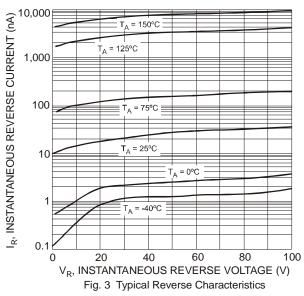


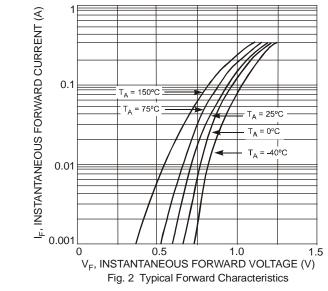


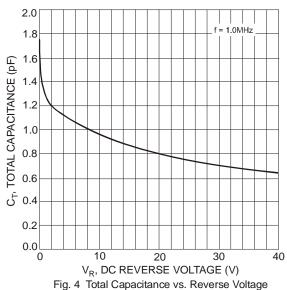
SURFACE MOUNT SWITCHING DIODES

TYPICAL TRANSIENT CHARACTERISTICS









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MMBD914

SURFACE MOUNT SWITCHING DIODES

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