

### Maximum Ratings @TA = 25°C unless otherwise specified

Characteristic		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		$V_{RM}$	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	75	٧
RMS Reverse Voltage		$V_{R(RMS)}$	53	V
Forward Continuous Current (Note 4)		I <sub>FM</sub>	500	mA
Average Rectified Output Current (Note 4)		lo	250	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0μs @ t = 1.0s	I <sub>FSM</sub>	4.0 1.0	А

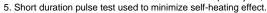
# **Thermal Characteristics**

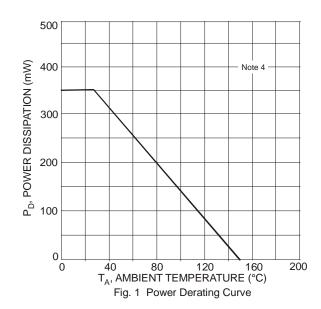
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 4)	$P_{D}$	350	mW
Thermal Resistance Junction to Ambient Air (Note 4)	$R_{ hetaJA}$	357	°C/W
Operating and Storage Temperature Range	$T_J,T_STG$	-65 to +150	°C

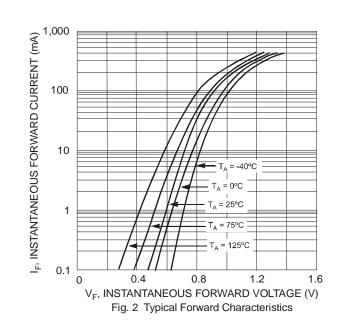
### **Electrical Characteristics** @T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 5)	$V_{(BR)R}$	75	_	V	$I_R = 2.5 \mu A$
	VF	0.62	0.72	>	$I_F = 5.0 \text{mA}$
Forward Voltage		_	0.855		$I_F = 10mA$
Tolward Voltage	V F	_	1.0		$I_F = 100 \text{mA}$
		_	1.25		$I_F = 150 \text{mA}$
	I <sub>R</sub>		2.5	μΑ	V <sub>R</sub> = 75V
Reverse Current (Note 5)			50	μA	$V_R = 75V, T_J = 150^{\circ}C$
Reverse Current (Note 5)		ir —	30	μΑ	V <sub>R</sub> = 25V, T <sub>J</sub> = 150°C
			25	nA	$V_R = 20V$
Total Capacitance	C <sub>T</sub>		4.0	pF	$V_R = 0, f = 1.0MHz$
Reverse Recovery Time	+	t <sub>rr</sub> —	4.0	ns	$I_F = I_R = 10 \text{mA},$
Reverse Recovery Time	ιrr				$I_{rr} = 0.1 \times I_R, R_L = 100\Omega$

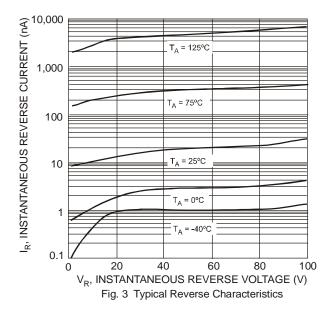
Notes: 4. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com.

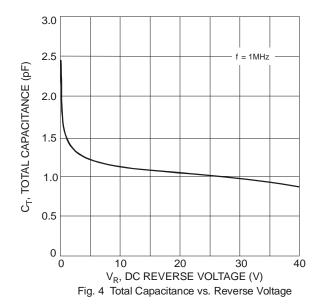




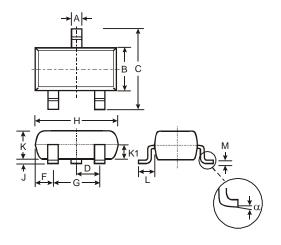






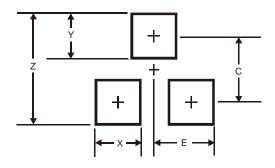


## **Package Outline Dimensions**



SOT-23				
Dim	Min	Max	Тур	
Α	0.37	0.51	0.40	
В	1.20	1.40	1.30	
С	2.30	2.50	2.40	
D	0.89	1.03	0.915	
F	0.45	0.60	0.535	
G	1.78	2.05	1.83	
Н	2.80	3.00	2.90	
J	0.013	0.10	0.05	
K	0.903	1.10	1.00	
K1	-	-	0.400	
L	0.45	0.61	0.55	
M	0.085	0.18	0.11	
α	0°	8°	-	
All Dimensions in mm				

# **Suggested Pad Layout**



Dimensions	Value (in mm)
Z	2.9
Х	0.8
Υ	0.9
С	2.0
E	1.35



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