

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 _{RRM} V _{RWM} V _R	80	V
RMS Reverse Voltage		$V_{R(RMS)}$	57	V
Forward Continuous Current (Note 5)		I _{FM}	500	mA
Average Rectified Output Current (Note 5)		lo	250	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0μs @ t = 1.0s	I _{FSM}	4.0 1.0	A

Thermal Characteristics

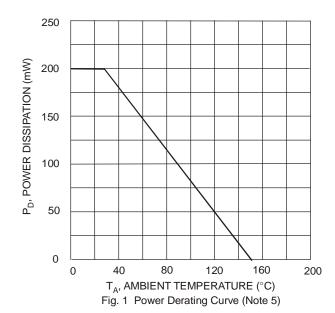
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P_{D}	200	mW
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{ hetaJA}$	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

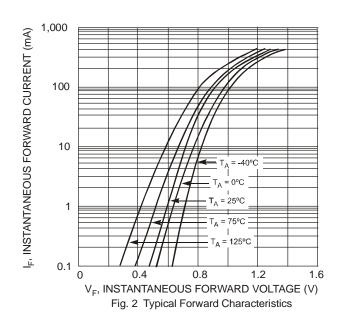
Electrical Characteristics @TA = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	80		٧	$I_R = 2.5 \mu A$
		0.62	0.72	V	$I_F = 5.0 \text{mA}$
Forward Voltage	VF	_	0.855		$I_F = 10 \text{mA}$
Forward voltage	VF	_	1.0		I _F = 100mA
		_	1.25		I _F = 150mA
			100	nA	V _R = 70V
Peak Reverse Current (Note 6)	1_		50	μΑ	$V_R = 75V, T_J = 150^{\circ}C$
reak Neverse Current (Note o)	IR.	I _R	30	μΑ	$V_R = 25V, T_J = 150^{\circ}C$
			25	nA	$V_R = 20V$
Total Capacitance	C _T		3.5	pF	$V_R = 6V, f = 1.0MHz$
Reverse Recovery Time	t _{rr}	_	4.0	ns	$V_R = 6V$, $I_F = 5mA$

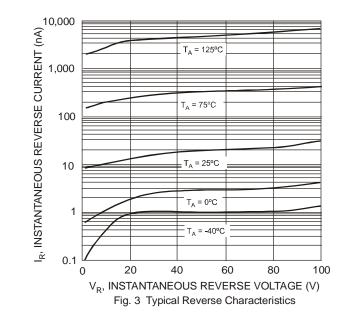
Notes:

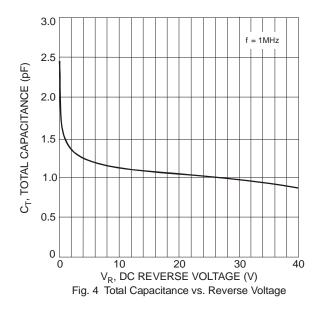
- 5. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch; pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at http://www.diodes.com.
- 6. Short duration pulse test used to minimize self-heating effect.



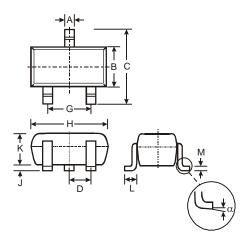






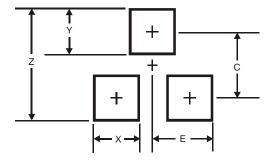


Package Outline Dimensions



SOT-323				
Dim	Min	Max	Тур	
Α	0.25	0.40	0.30	
В	1.15	1.35	1.30	
С	2.00	2.20	2.10	
D	-	-	0.65	
G	1.20	1.40	1.30	
Н	1.80	2.20	2.15	
J	0.0	0.10	0.05	
K	0.90	1.00	1.00	
L	0.25	0.40	0.30	
M	0.10	0.18	0.11	
α	0°	8°	-	
All Dimensions in mm				

Suggested Pad Layout



Dimensions	Value (in mm)
Z	2.8
Х	0.7
Υ	0.9
С	1.9
E	1.0



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