

Maximum Ratings @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	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	I _{FM}	250	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0μs	I _{FSM}	2.0	A

Thermal Characteristics

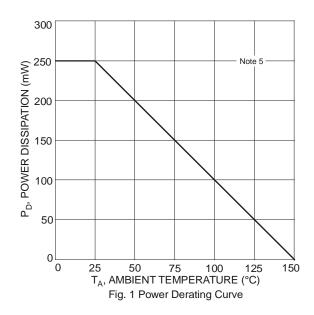
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P_{D}	250	mW
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{ hetaJA}$	500	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

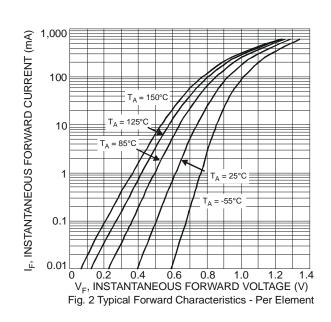
Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	80	_		V	$I_R = 100 \mu A$
		_	0.62	_		$I_F = 1.0 \text{mA}$
Forward Voltage	V _F	_	0.75	_	V	$I_F = 10mA$
		_	0.95	1.23		$I_F = 100 \text{mA}$
Lookaga Current (Note 6)	I _R	_	0.011	0.5	μΑ	V _R = 30V
Leakage Current (Note 6)		_	0.013	1.0	μΑ	$V_{R} = 80V$
Total Capacitance	C _T	_	0.7	3.0	pF	$V_R = 0, f = 1.0MHz$
Reverse Recovery Time		_	1.7	4.0	200	$I_F = I_R = 10 \text{mA},$
Reverse Recovery Time	t _{rr}				ns	$I_{rr} = 0.1 \times I_{R}, R_{L} = 100\Omega$

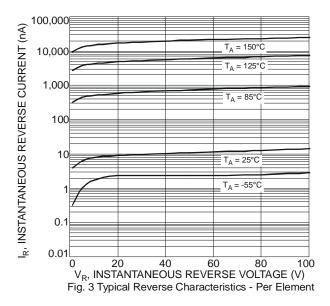
Notes:

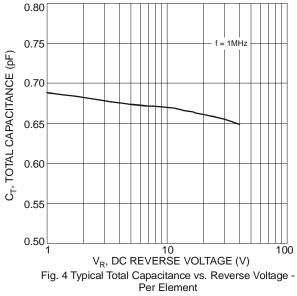
- 5. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com.
- 6. Short duration pulse test used to minimize self-heating effect.



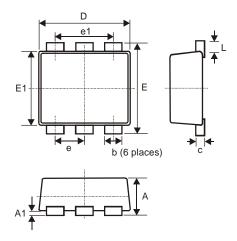






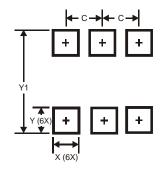


Package Outline Dimensions



SOT963				
Dim	Min	Max	Тур	
Α	0.40	0.50	0.45	
A1	0	0.05	-	
C	0.120	0.180	0.150	
D	0.95	1.05	1.00	
Е	0.95	1.05	1.00	
E1	0.75	0.85	0.80	
L	0.05	0.15	0.10	
b	0.10	0.20	0.15	
e 0.35 Typ				
e1	e1 0.70 Typ			
All Dimensions in mm				

Suggested Pad Layout



Dimensions	Value (in mm)
С	0.350
Х	0.200
Y	0.200
Y1	1.100



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