

Maximum Ratings (@ T_A = +25°C, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	100	٧
RMS Reverse Voltage		V _{R(RMS)}	71	V
Forward Continuous Current (Note 5)		I _{FM}	250	mA
Average Rectified Output Current (Note 5)		lo	125	mA
Repetitive Peak Forward Current		I _{FRM}	450	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0ms @ t = 1.0s	I _{FSM}	4 1 0.5	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Power Dissipation (Note 5)	P_{D}	350	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 5)	R _{θJA}	357	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

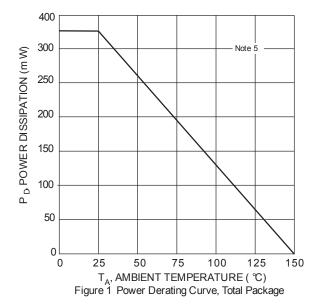
Electrical Characteristics (@ T_A = +25°C, unless otherwise specified.)

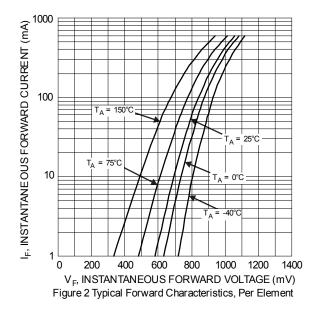
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	100	_	V	I _R = 20μA
Forward Voltage	V _F	l	0.715 0.855 1.0 1.25	V	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA
Reverse Current (Note 6)	I _R		0.5 100 30 30	μΑ μΑ	V _R = 80V V _R = 80V, T _J = +150°C V _R = 25V, T _J = +150°C V _R = 25V
Total Capacitance	C _T	_	1.5	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{RR}	_	4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{RR} = 0.1 \text{ x } I_R, R_L = 100 \Omega$
Forward Recovery Voltage	V_{FR}	_	1.75	V	I _F = 10mA, t _R = 20ns

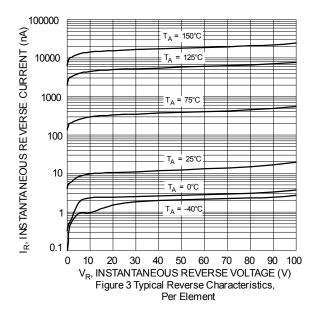
Notes:

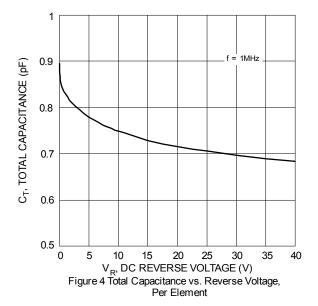
- 5. Part is mounted on a 1.5"x1.5" FR-4 substrate PC board, with 1" X 1" 2oz Cu pad.
- 6. Short duration pulse test used to minimize self-heating effect.







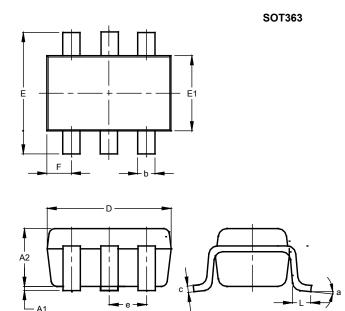






Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.

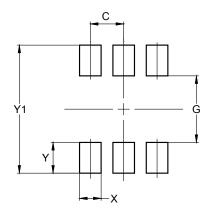


SOT363				
Dim	Min	Max	Тур	
A1	0.00	0.10	0.05	
A2	0.90	1.00	0.95	
b	0.10	0.30	0.25	
С	0.10	0.22	0.11	
D	1.80	2.20	2.15	
Е	2.00	2.20	2.10	
E1	1.15	1.35	1.30	
е	0.650 BSC			
F	0.40	0.45	0.425	
L	0.25	0.40	0.30	
а	0°	8°		
All Dimensions in mm				

Suggested Pad Layout

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SOT363



Dimensions	Value		
Intensions	(in mm)		
С	0.650		
G	1.300		
X	0.420		
Υ	0.600		
Y1	2.500		



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