

Characteristic		Symbol	Value	Unit
Repetitive Peak Reverse Voltage		V_{RRM}	350	V
Working Peak Reverse Voltage DC Blocking Voltage		V_{RWM}	300	V
RMS Reverse Voltage		V _{R(RMS)}	212	V
Forward Continuous Current (Note 5)		lF	225	mA
Peak Repetitive Forward Current (Note 5)		I _{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	I _{FSM}	4.0 1.0	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P_{D}	350	mW
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{\Theta JA}$	357	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

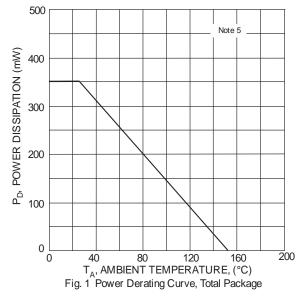
Electrical Characteristics (@T_A = +25°C unless otherwise specified.)

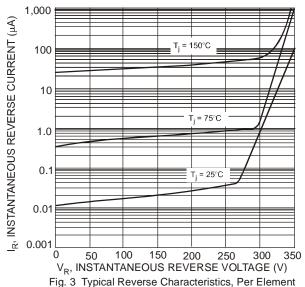
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	350		_	V	$I_R = 150\mu A$
Forward Voltage	VF		0.78 0.93 1.03	0.87 1.0 1.25	V	I _F = 20mA I _F = 100mA I _F = 200mA
Reverse Current (Note 6)	I _R		30 35	100 100	nΑ μΑ	$V_R = 240V$ $V_R = 240V$, $T_J = +150$ °C
Total Capacitance	Ст	_	1.0	5.0	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}			50		$I_F = I_R = 30 \text{mA},$ $I_{rr} = 3.0 \text{mA}, R_L = 100 \Omega$

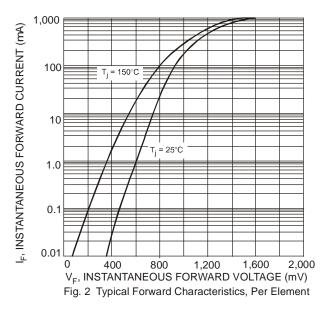
Notes:

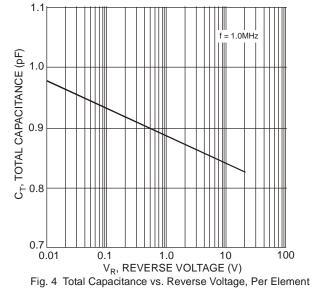
^{5.} Part mounted on FR-4 board 1 inch squared cu pad layout.6. Short duration pulse test used to minimize self-heating effect.













Package Outline Dimensions

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

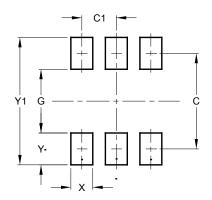
SOT26 (SC74R) E1 A2 A1 A3 A2 A1 Seating Plane

SOT26 (SC74R)				
Dim	Min	Max	Тур	
A1	0.013	0.10	0.05	
A2	1.00	1.30	1.10	
A3	0.70	0.80	0.75	
b	0.35	0.50	0.38	
С	0.10	0.20	0.15	
D	2.90	3.10	3.00	
е	_		0.95	
e1			1.90	
E	2.70	3.00	2.80	
E1	1.50	1.70	1.60	
L	0.35	0.55	0.40	
а	_		8°	
a1	_		7°	
All Dimensions in mm				

Suggested Pad Layout

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

SOT26 (SC74R)



Dimensions	Value (in mm)
С	2.40
C1	0.95
G	1.60
X	0.55
Υ	0.80
Y1	3.20



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