

# Maximum Ratings (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> Vr	40	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	28	V
Forward Continuous Current (Note 5)	I <sub>FM</sub>	350	mA
Average Rectified Current (Note 5)	lo	175	mA
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Note 5)	I <sub>FSM</sub>	1.0	А

## **Thermal Characteristics**

Characteristic		Symbol	Value	Unit
Power Dissipation	(Note 6)	PD	200	mW
Thermal Resistance, Junction to Ambient Air	(Note 6)	$R_{ extsf{ heta}JA}$	500	°C/W
Operating and Storage Temperature Range		TJ, T <sub>STG</sub>	-55 to +125	°C

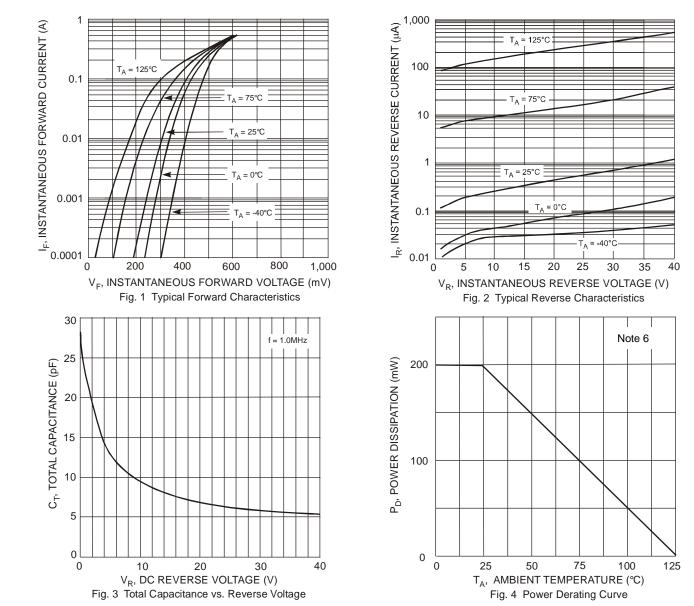
## Electrical Characteristics (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	(Note 7)	V <sub>(BR)R</sub>	40	_	_	V	I <sub>R</sub> = 100μA
			_	0.27	_	V	I <sub>F</sub> = 1mA
Forward Voltage Drop		VF		0.32	_	V	$I_F = 5 m A$
		٧F	_	0.36	0.37	V	$I_F = 20 \text{mA}$
			—	0.44	0.50	V	I <sub>F</sub> = 100mA
Leakage Current (Note 7)	(Noto 7)	1-	_	0.2	2.0	μA	V <sub>R</sub> = 10V
	IR		0.4	5.0	μA	$V_R = 30V$	
Total Capacitance		CT	_	50	_	pF	$V_{R} = 0V, f = 1.0MHz$
Reverse Recovery Time		t <sub>rr</sub>	_	10	_	ns	$I_{F} = I_{R} = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_{R}, R_{L} = 100 \Omega$

Notes: 5. This is the maximum rating of single Diode  $(D_1 \text{ or } D_2 \text{ or } D_3)$ . In the case of using two or three diodes, the maximum ratings per diode are 75% of the

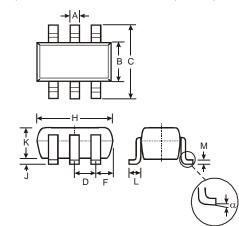
This is the maximum rating of single block (b, of D<sub>2</sub> of D<sub>3</sub>). If the case of using two of three dodes, the maximum ratings per dode are 75% of the ratings for single dode operation.
Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
Short duration pulse test used to minimize self-heating effect.





## **Package Outline Dimensions**

Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.

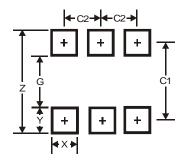


	SOT363					
Dim	Min	Max	Тур			
Α	0.10	0.30	0.25			
В	1.15	1.35	1.30			
С	2.00	2.20	2.10			
D	0.65 Typ					
F	0.40	0.45	0.425			
Н	1.80	2.20	2.15			
J	0	0.10	0.05			
Κ	0.90	1.00	1.00			
L	0.25	0.40	0.30			
М	0.10	0.22	0.11			
α	0°	8°	-			
All	All Dimensions in mm					



## Suggested Pad Layout

Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.



Dimensions	Value (in mm)
Z	2.5
G	1.3
Х	0.42
Y	0.6
С	1.9
E	0.65

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