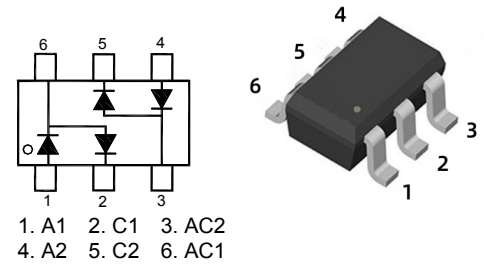


Silicon Epitaxial Planar Switching Diode

Fast Switching Diode



■ Simplified outline(SOT-363)

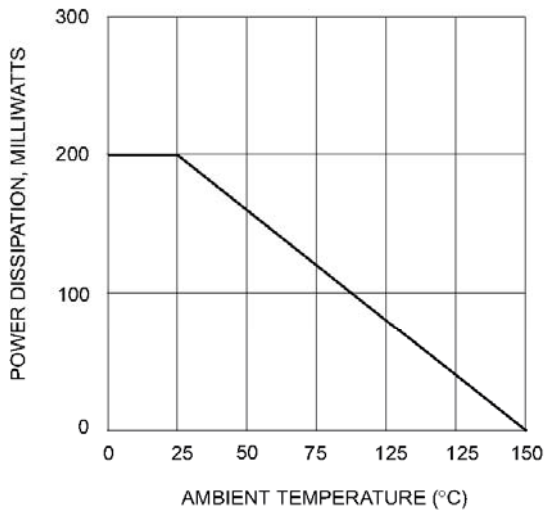
Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	150	mA
Forward Continuous Current	I_{FM}	300	mA
Non-Repetitive Peak Forward Surge Current (at t = 1 μ s)	I_{FSM}	0.5	A
Power Dissipation	P_d	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 65 to + 150	°C

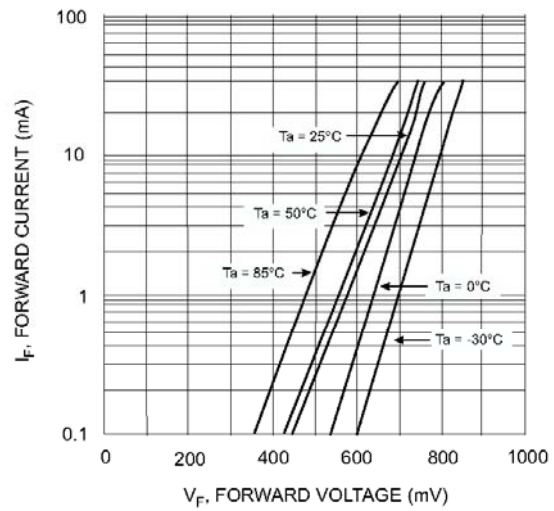
Characteristics (Ta=25°C unless otherwise specified.)

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 5$ mA at $I_F = 10$ mA at $I_F = 100$ mA at $I_F = 150$ mA	V_F	0.62 - - -	0.72 0.855 1 1.25	V
Reverse Leakage Current at $V_R = 80$ V at $V_R = 20$ V at $V_R = 75$ V, $T_J = 150$ °C at $V_R = 25$ V, $T_J = 150$ °C	I_R	- - - -	100 25 50 30	nA nA μ A μ A
Reverse Breakdown Voltage at $I_R = 100$ μ A	$V_{(BR)R}$	80	-	V
Total Capacitance at $V_R = 0.5$ V, $f = 1$ MHz	C_{tot}	-	4	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_{rr} = 0.1 \times I_R$, $R_L = 100$ Ω	t_{rr}	-	4	ns

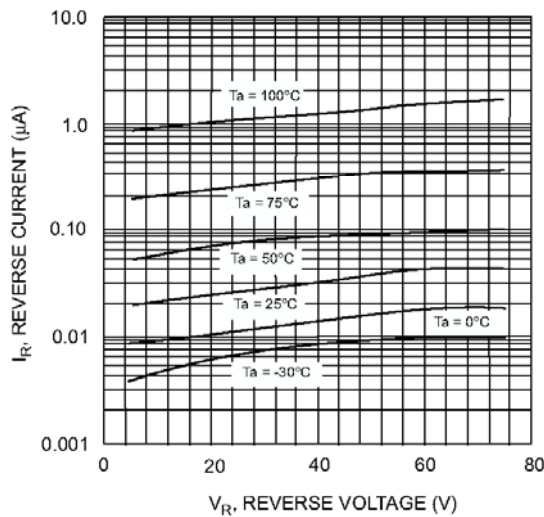
Typical Characteristics



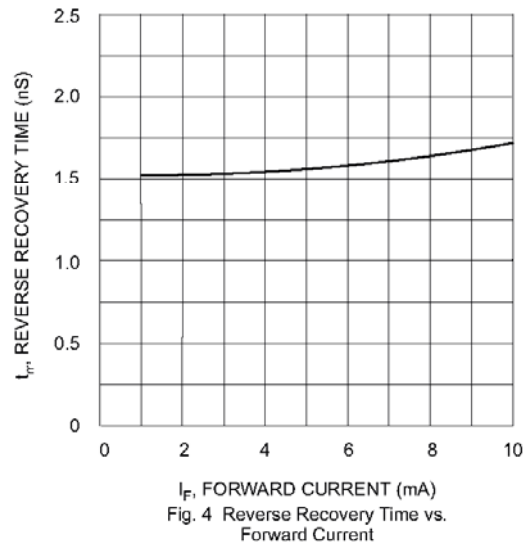
AMBIENT TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



V_F , FORWARD VOLTAGE (mV)
Fig. 2 Typical Forward Characteristics



V_R , REVERSE VOLTAGE (V)
Fig. 3 Typical Reverse Characteristics



I_F , FORWARD CURRENT (mA)
Fig. 4 Reverse Recovery Time vs. Forward Current

Ordering information

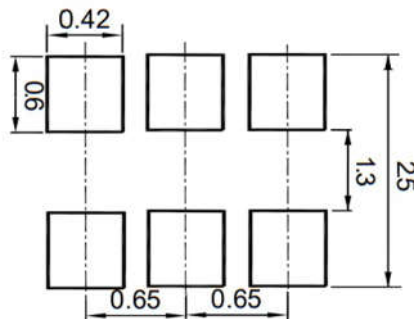
Package	Packing Description	Packing Quantity
SOT-363	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOT-363

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
A1	-	0.1	-	3.94
bp	0.20	0.30	7.87	11.81
c	0.10	0.25	3.94	9.84
D	1.8	2.2	70.87	86.61
E	1.15	1.35	45.28	53.15
e	1.3		51.18	
e1	0.65		25.6	
HE	2.0	2.2	78.74	86.6
Lp	0.15	0.45	5.90	17.71
Q	0.15	0.25	5.90	9.84
v	0.2		7.78	
w	0.2		7.78	
y	0.1		3.94	

The recommended mounting pad size



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