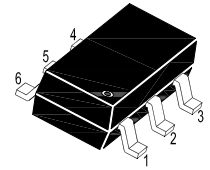
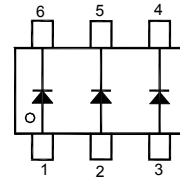


**■ Silicon Epitaxial Planar Switching Diode**
**■ Features**

- Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications
- High conductance



1.Anode    2. Anode    3.Anode  
4. Cathode    5. Cathode    6.Cathode

**■ Simplified outline(SOT-363)**
**■ Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V <sub>RM</sub>	100	V
Reverse Voltage	V <sub>R</sub>	75	V
Average Rectified Forward Current	I <sub>F(AV)</sub>	200	mA
Forward Continuous Current	I <sub>FM</sub>	300	mA
Non-Repetitive Peak Forward Current	I <sub>FSM</sub>	2 1	A
		t = 1 μs t = 1 s	
Power Dissipation	P <sub>tot</sub>	200	mW
Thermal Resistance, Junction to Ambient	R <sub>θJA</sub>	625	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	- 65 to + 150	°C

**■ Characteristics at T<sub>a</sub> = 25°C**

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 100 μA	V <sub>(BR)R</sub>	75	-	V
Forward Voltage at I <sub>F</sub> = 1 mA at I <sub>F</sub> = 10 mA at I <sub>F</sub> = 50 mA at I <sub>F</sub> = 150 mA	V <sub>F</sub>	- - - -	0.715 0.855 1 1.25	V
Peak Reverse Current at V <sub>R</sub> = 20 V at V <sub>R</sub> = 75 V at V <sub>R</sub> = 25 V, T <sub>J</sub> = 150°C at V <sub>R</sub> = 75 V, T <sub>J</sub> = 150°C	I <sub>R</sub>	- - - -	25 1 30 50	nA μA μA μA
Total Capacitance at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>T</sub>	-	2	pF
Reverse Recovery Time at I <sub>F</sub> = I <sub>R</sub> = 10 mA, I <sub>rr</sub> = 0.1 X I <sub>R</sub> , R <sub>L</sub> = 100 Ω	t <sub>rr</sub>	-	4	ns

Power Dissipation vs Ambient Temperature

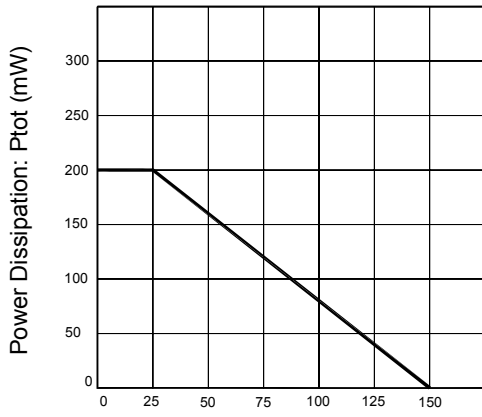


Fig.1 Ambient Temperature: Ta ( C)

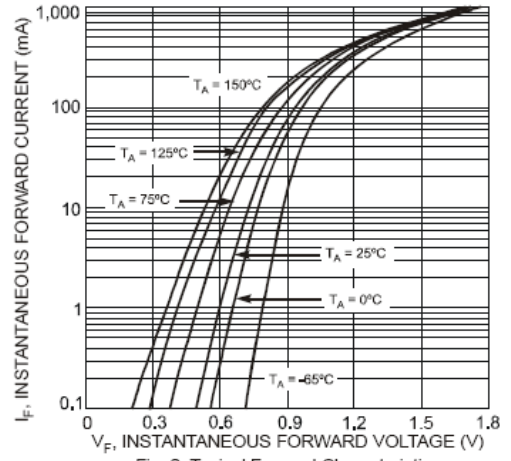


Fig. 2 Typical Forward Characteristics

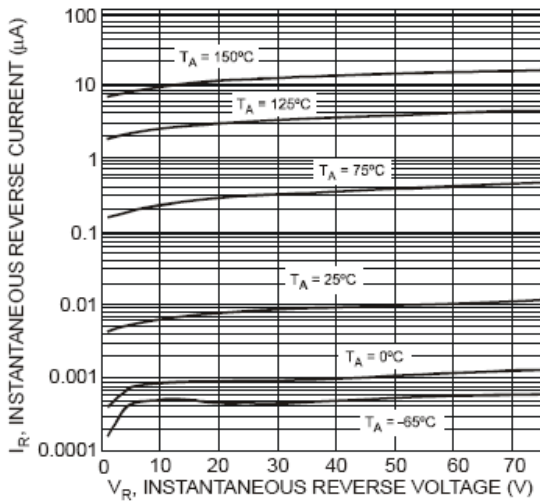


Fig. 3 Typical Reverse Characteristics

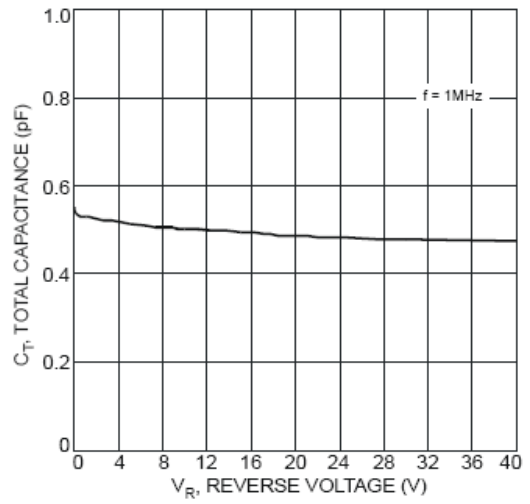
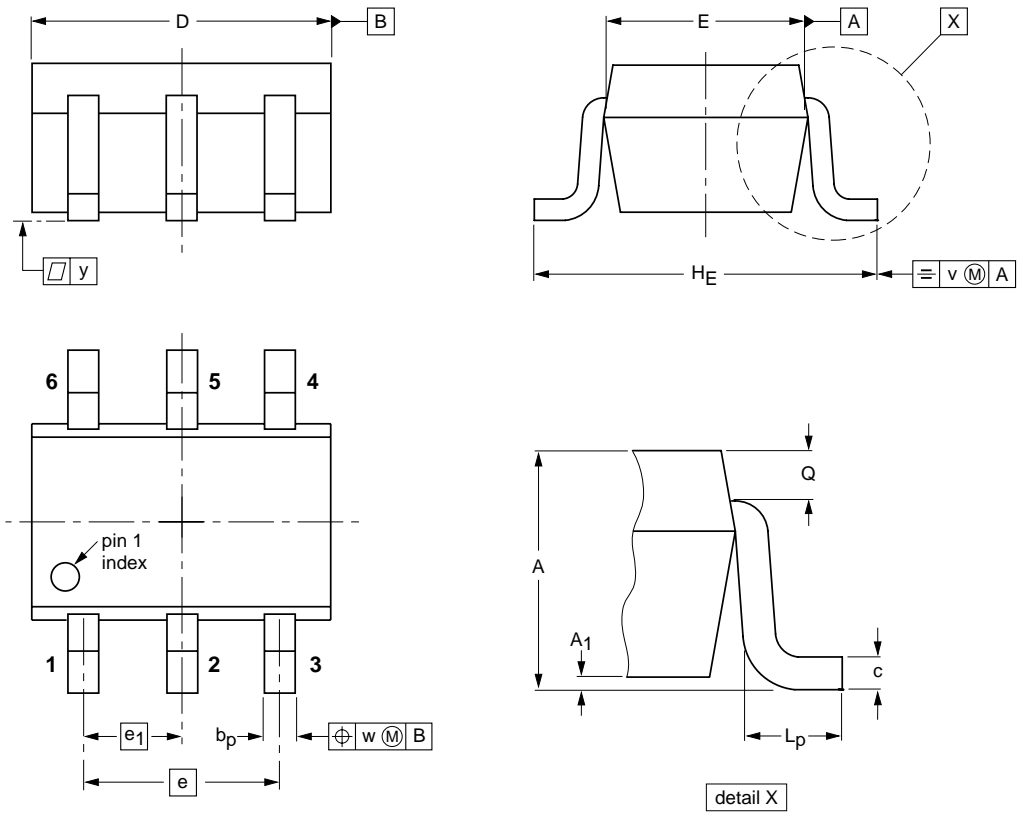


Fig. 4 Typical Total Capacitance

Package Outline

SOT-363



DIMENSIONS (mm are the original dimensions)

UNIT	A	A1 max	bp	c	D	E	e	e1	HE	Lp	Q	v	w	y
mm	1.1 0.8	0.1	0.30 0.20	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.25 0.15	0.2	0.2	0.1

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SOT-363	Tape/Reel, 7" reel	3000	EIA-481-1