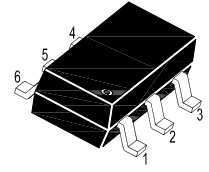
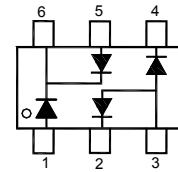


■ Silicon Epitaxial Planar Switching Diode

■ Features

- High speed
- High switching speed



1. A1 2. K1 3. CA
4. K2 5. A2 6. CC

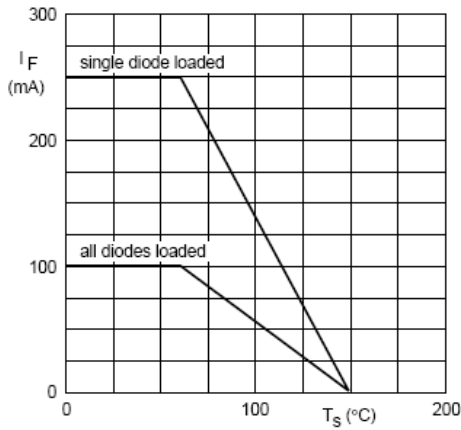
■ Simplified outline(SOT-363)

■ Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

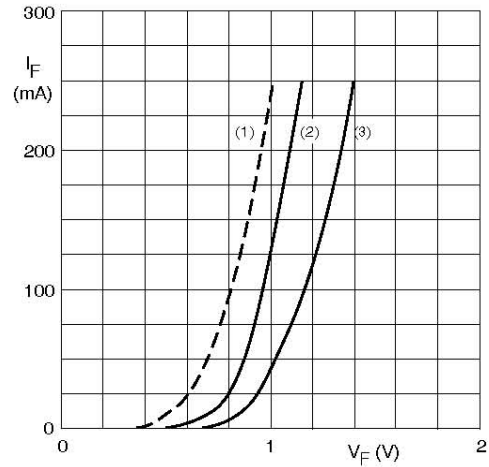
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	90	V
Reverse Voltage	V_R	90	V
Continuous Forward Current	I_F	250	mA
Single Diode Loaded All Diodes Loaded		100	
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	4	A
at $t = 1 \mu\text{s}$		1	
at $t = 1 \text{ms}$ at $t = 1 \text{s}$		0.5	
Total Power Dissipation	P_{tot}	350	mW
Junction Temperature	T_j	- 65 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

■ Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1 \text{mA}$ at $I_F = 10 \text{mA}$ at $I_F = 50 \text{mA}$ at $I_F = 150 \text{mA}$	V_F	0.715	V
		0.855	
		1	
		1.25	
Reverse Current at $V_R = 25 \text{V}$ at $V_R = 80 \text{V}$ at $V_R = 25 \text{V}, T_j = 150^\circ\text{C}$ at $V_R = 80 \text{V}, T_j = 150^\circ\text{C}$	I_R	30	nA
		0.5	μA
		30	μA
		150	μA
Diode Capacitance at $V_R = 0, f = 1 \text{MHz}$	C_d	2	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$	t_{rr}	4	ns

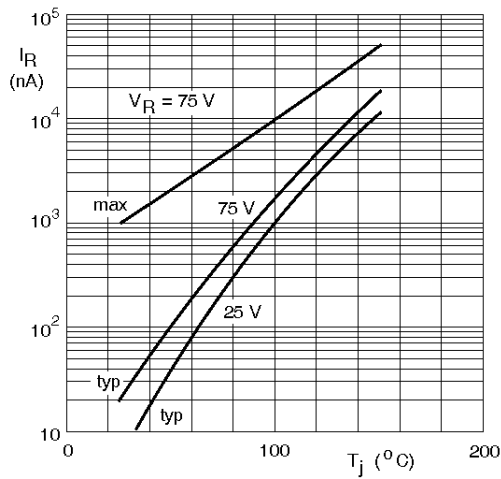


Maximum permissible continuous forward current as a function of soldering point temperature.

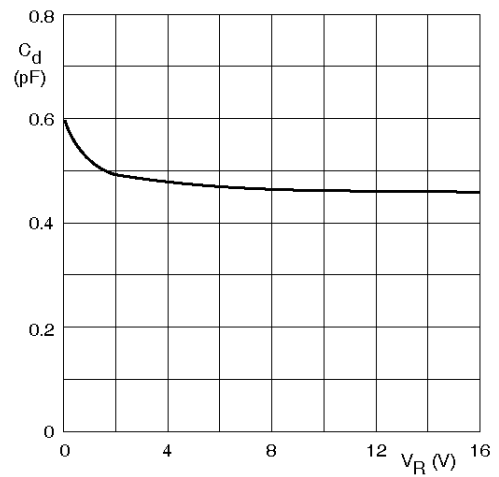


- (1) $T_j = 150$ °C; typical values.
- (2) $T_j = 25$ °C; typical values.
- (3) $T_j = 25$ °C; maximum values.

Forward current as a function of forward voltage.



Reverse current as a function of junction temperature.

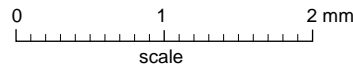
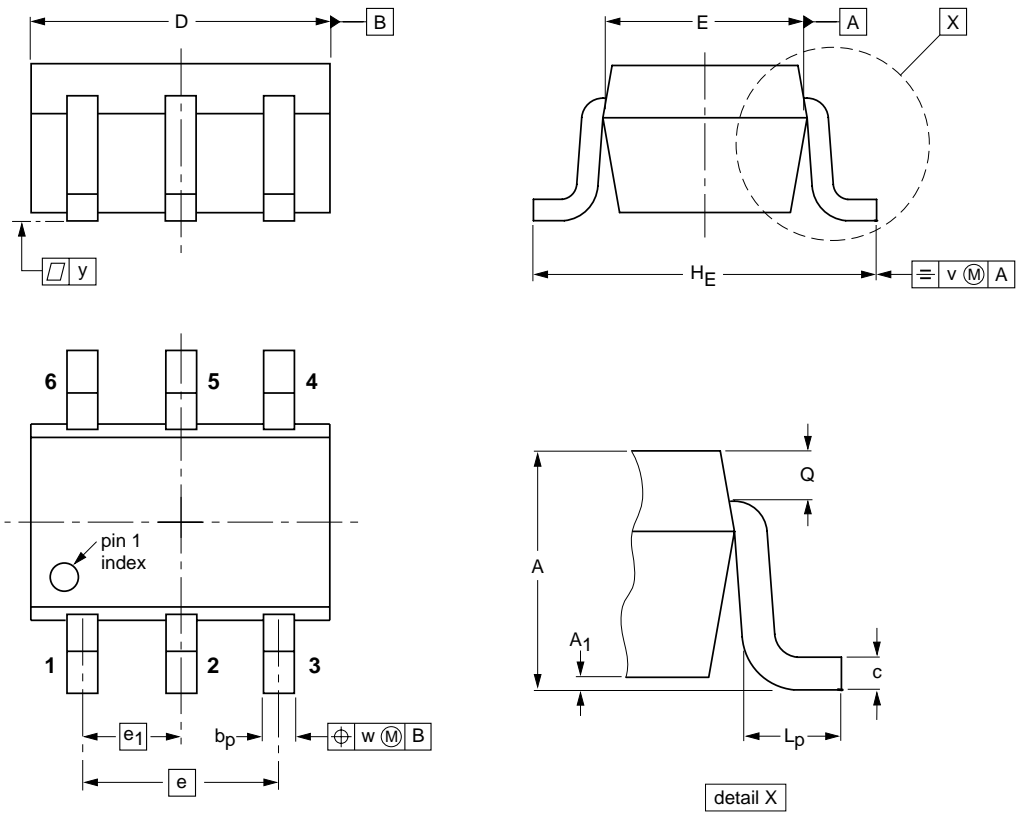


$f = 1$ MHz; $T_j = 25$ °C.

Diode capacitance as a function of reverse voltage; typical values.

Package Outline

SOT-363



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max	b _p	c	D	E	e	e ₁	H _E	L _p	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