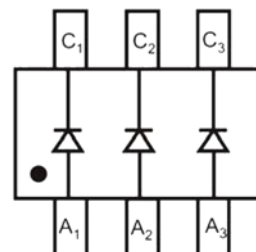
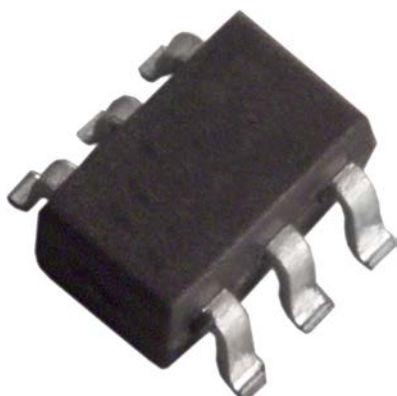


Surface Mount Fast Switching Diode



SOT-363

Features:

- Fast Switching Speed
- For General Purpose Switching Application
- Ultra-Small Surface Mount Package
- High Conductance

Applications:

- For general purpose switching application

Maximum Ratings:

$T_A = 25^\circ\text{C}$ unless otherwise specified.

Characteristic	Symbol	Value	Unit
Non-repetitive peak reverse Voltage	V_{RM}	100	V
Peak repetitive reverse Voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RWM} V_R	75	V
Forward continuous current	I_{FM}	300	mA
Average rectified output current	I_O	150	mA
Non-Repetitive peak forward surge current at $t=1\mu\text{s}$ at $t=1\text{s}$	I_{FSM}	2 1	A
Power dissipation	P_D	200	mW
Thermal resistance, junction to ambient	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Junction and storage temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$

Surface Mount Fast Switching Diode



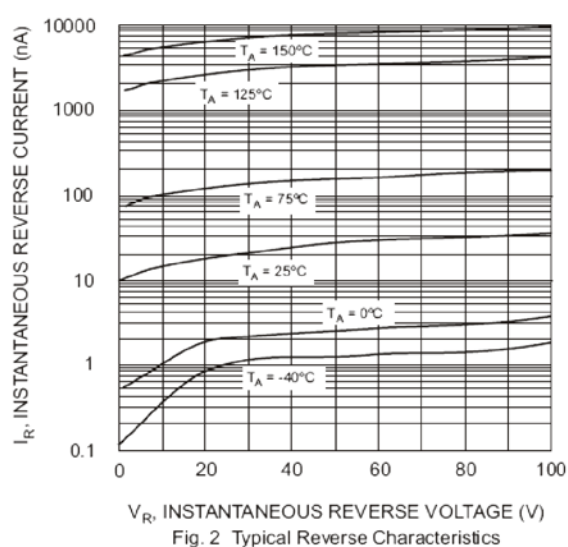
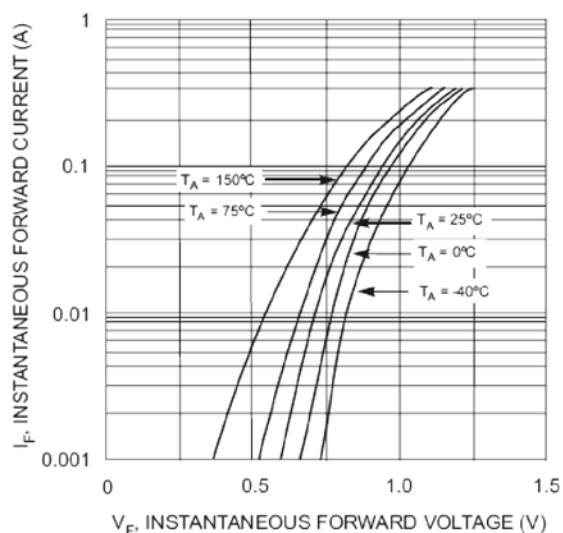
Electrical Characteristics:

$T_A=25^{\circ}\text{C}$ unless otherwise specified.

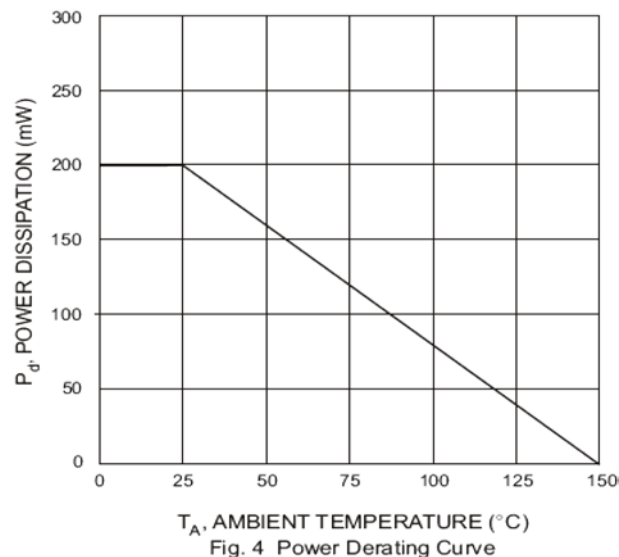
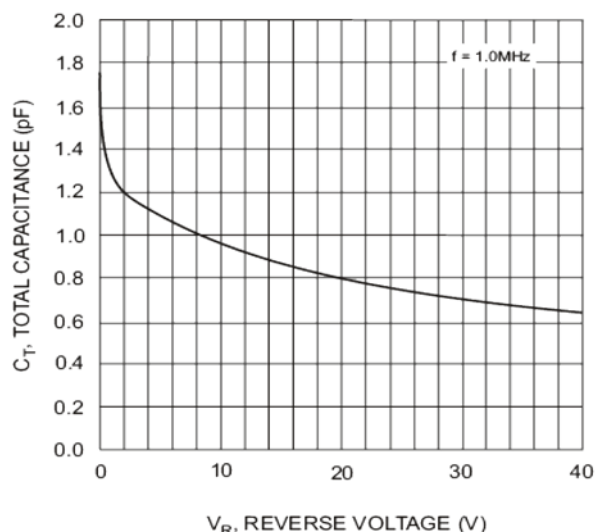
Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=1\mu\text{A}$	75	-	V
Forward voltage	V_F	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$	-	0.715 0.855 1 1.25	V
Total Capacitance	C_T	$V_{CB}=10\text{V}$, $f=1\text{MHz}$, $I_E=0$	-	2	pF
Reverse Recovery time	t_{rr}	$I_F=I_R=10\text{mA}$, $I_{rr}=0.1 \times I_R$, $R_L=100\Omega$	-	4	ns

Typical Characteristics:

$T_A = 25^{\circ}\text{C}$ unless otherwise specified.

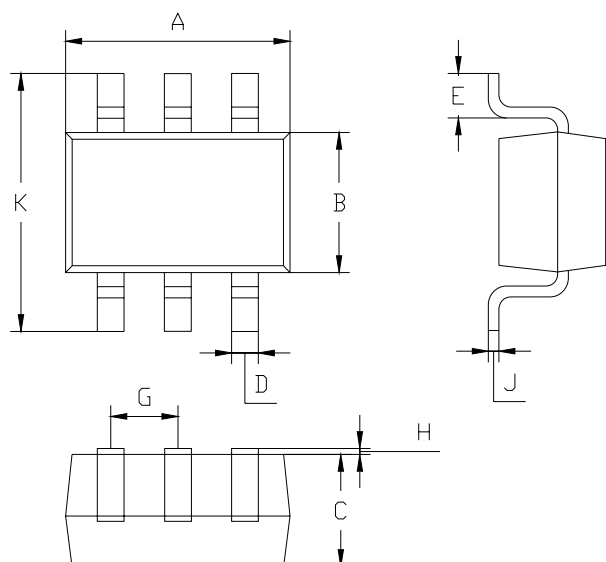


Surface Mount Fast Switching Diode



Package Outline:

Plastic surface mounted package



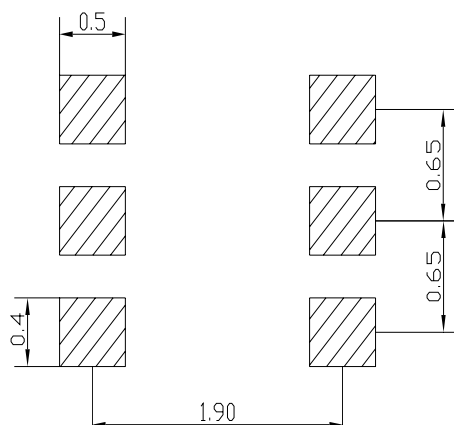
SOT-363		
Dim.	Min.	Max.
A	1.8	2.2
B	1.15	1.35
C	1 Typ.	
D	0.1	0.3
E	0.25	0.4
G	0.65 Typ.	
H	0.02	0.1
J	0.1 Typ.	
K	2.1	2.3

Dimensions : Millimetres

Surface Mount Fast Switching Diode



Soldering Footprint:



Dimensions : Millimetres

Package Information:

Device	Package	Shipping
BAS16TW-7-F	SOT-363	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Fast Switching Diode	BAS16TW-7-F

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