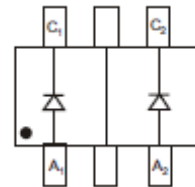
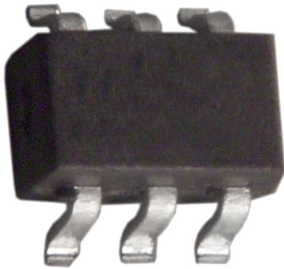


Surface Mount Schottky Barrier Diode



SOT-363

Features:

- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Available in Lead Free Version

Applications:

- High Speed Switching Application

Maximum Ratings:

Ratings at 25°C unless otherwise specified.

Characteristics	Symbol	Value	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RWM} V_R	30	V
Forward continuous current	I_F	200	mA
Repetitive peak forward current	I_{FRM}	300	mA
Forward surge current at $t < 1s$	I_{FSM}	0.6	A
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	625	°C/W
Storage temperature	T_J, T_{STG}	-65 to +125	°C

Surface Mount Schottky Barrier Diode



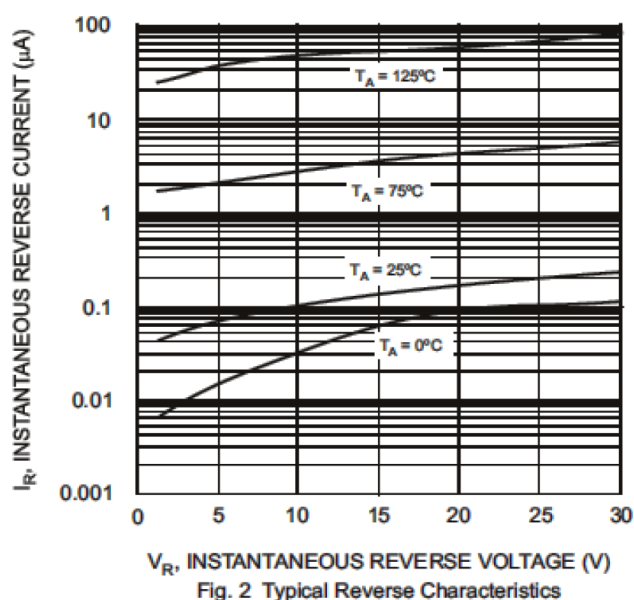
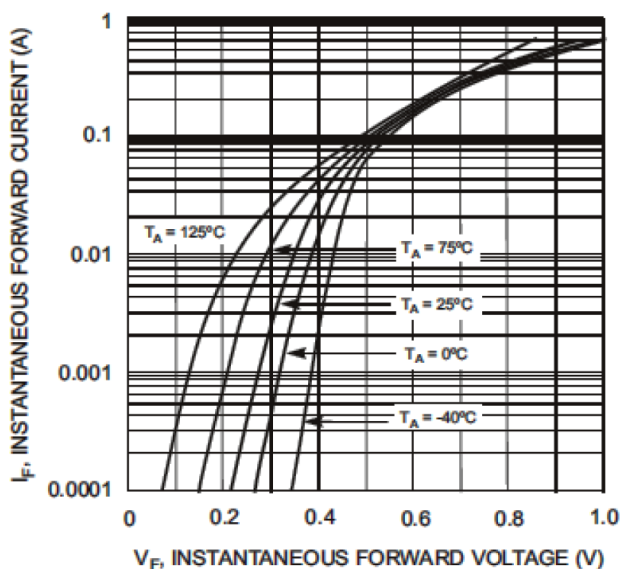
Electrical Characteristics:

Ratings at 25°C unless otherwise specified

Parameter	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	$V_{(BR)R}$	30	-	V	$I_R=100\mu A$
Average reverse current	I_R	-	2	μA	$V_R=25V$
Forward voltage	V_F	-	0.24 0.32 0.4 0.5 1	V	$I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$
Total capacitance	C_T	-	10	pF	$V_R=1V, f=1MHz$
Reverse recovery time	t_{rr}	-	5	nS	$I_F=10mA$ through $I_R=10mA$ to $I_R=1mA, R_L=100\Omega$

Typical Characteristics:

$T_A = 25^\circ C$ unless otherwise specified



Surface Mount Schottky Barrier Diode

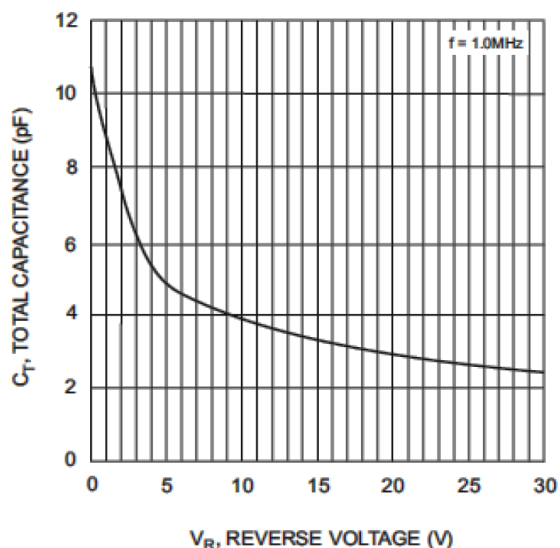


Fig. 3 Typical Capacitance vs. Reverse Voltage

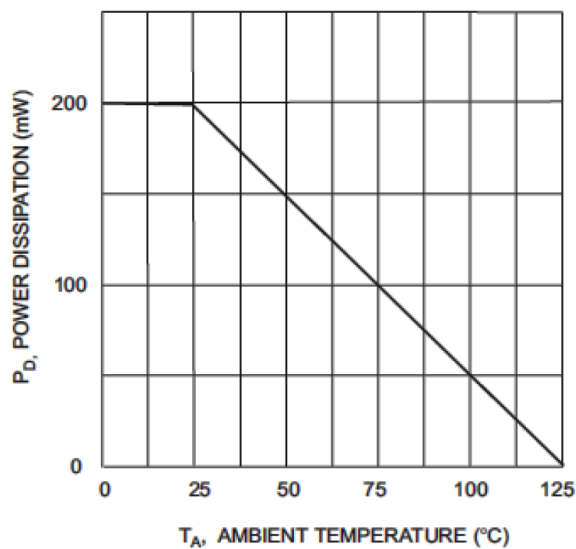
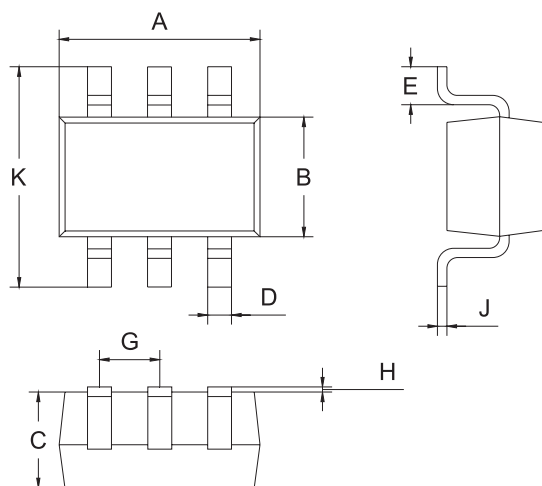


Fig. 4 Power Derating Curve

Package Outline:

Plastic surface mounted package



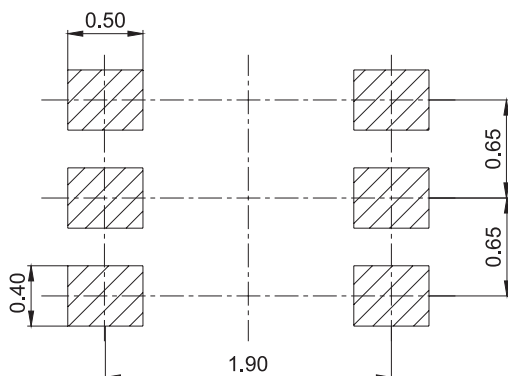
SOT-363		
Dim.	Min.	Max.
A	2	2.2
B	1.55	1.35
C	0.95 Typ.	
D	0.25 Typ.	
E	0.25	0.4
G	0.6	0.7
H	0.02	0.1
J	0.1 Typ.	
K	2.2	2.4

Dimensions : Millimetres

Surface Mount Schottky Barrier Diode



Soldering Footprint:



Dimensions : Millimetres

Package Information:

Device	Package	Shipping
BAT54JW-7-F	SOT-363	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Schottky Barrier Diode	BAT54JW-7-F

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