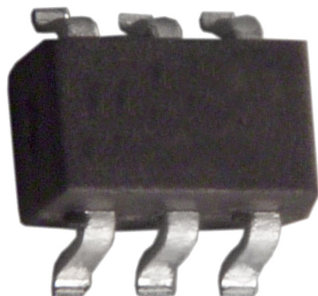
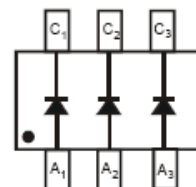


Surface Mount Schottky Barrier Diode

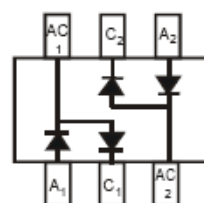


Features:

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



BAS40TW-7-F



BAS40DW-04-7-F

SOT-363

Maximum Ratings:

Ratings at 25°C unless otherwise specified.

Characteristics	Symbol	Value	Unit
RMS reverse voltage	$V_{R(RMS)}$	28	V
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RWM} V_R	40	V
Forward continuous current	I_{FM}	200	mA
Average rectified output current	I_o	1	A
Non-repetitive peak forward surge current at $t < 1\mu s$	I_{FSM}	0.6 1	A
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	625	°C/W
Storage temperature	T_J, T_{STG}	-55 to +150	°C

Surface Mount Schottky Barrier Diode



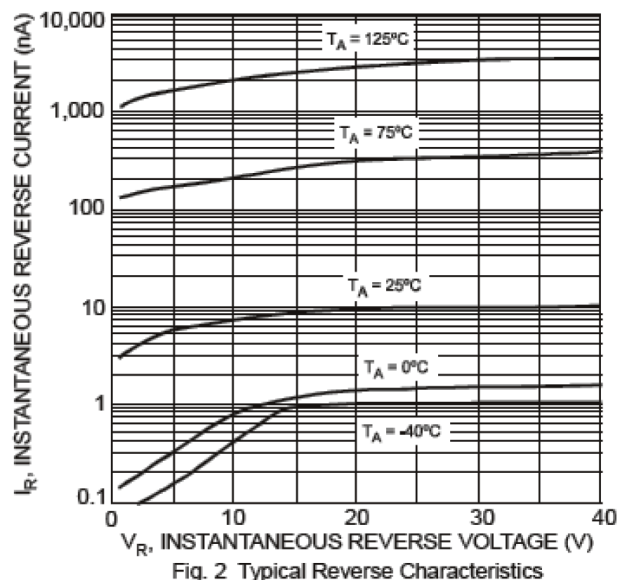
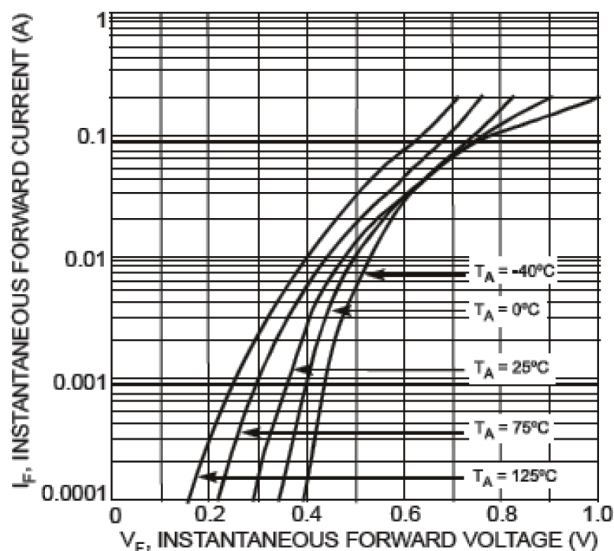
Electrical Characteristics:

Ratings at 25°C unless otherwise specified

Parameter	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	$V_{(BR)R}$	40	-	V	$I_R=10\mu A$
Forward voltage	V_F	-	0.38 1	V	$I_F=1mA$ $I_F=40mA$
Reverse current	I_R	-	200	nA	$V_R=30V$
Total capacitance	C_T	-	5	pF	$V_R=0V, f=1MHz$
Reverse recovery time	T_{rr}	-	5	nS	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$

Typical Characteristics:

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



Surface Mount Schottky Barrier Diode

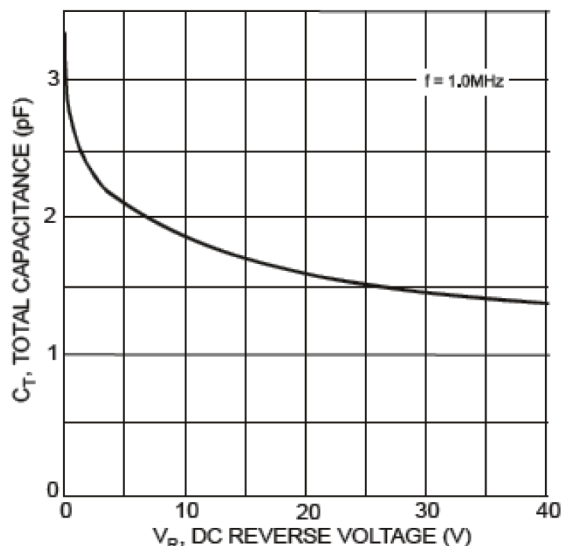


Fig. 3 Total Capacitance vs. Reverse Voltage

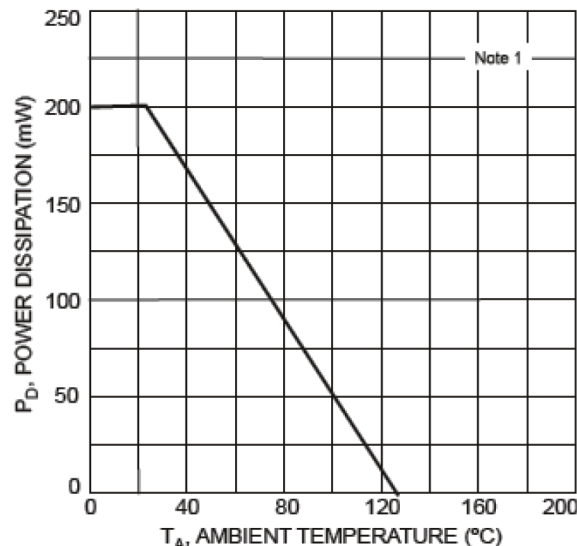
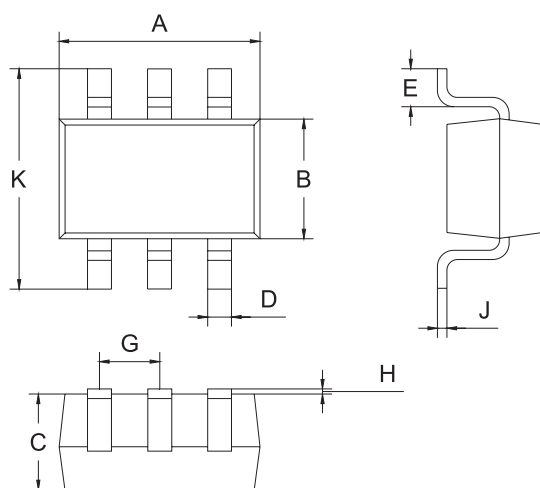


Fig. 4 Power Derating Curve, Total Package

Package Outline:

Plastic surface mounted package



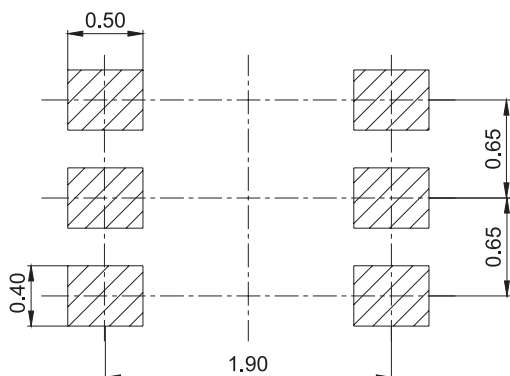
SOT-363		
Dim.	Min.	Max.
A	2	2.2
B	1.55	1.35
C	0.95 Typ.	
D	0.25 Typ.	
E	0.25	0.4
G	0.6	0.7
H	0.02	0.1
J	0.1 Typ.	
K	2.2	2.4

Dimensions : Millimetres

Surface Mount Schottky Barrier Diode



Soldering Footprint:



Dimensions : Millimetres

Package Information:

Device	Package	Shipping
BAS40TW-7-F & BAS40DW-04-7-F	SOT-363	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Schottky Barrier Diode	BAS40TW-7-F
	BAS40DW-04-7-F

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