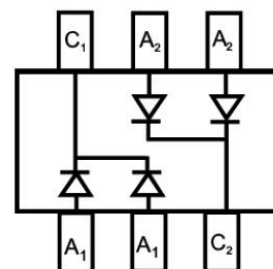


Surface Mount Fast Switching Diode



Features:

- Fast Switching Speed
- For General Purpose Switching Application
- Ultra-Small Surface Mount Package
- High Conductance
- Two “BAV70” Circuits in One Package



Applications:

For general purpose switching application

SOT-363

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

Parameter	Symbol	Limits	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RMS} V_R	75	V
RMS reverse voltage	$V_R(RMS)$	53	V
Forward continuous current	I_{FM}	300	mA
Non-repetitive peak forward surge current @ $t = 1\mu s$ @ $t = 1s$		2 1	A
Average rectified output current	I_o	150	mA
Power dissipation	P_D	200	mW
Thermal resistance, junction to ambient	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Operating and storage temperature range	T_j, T_{STG}	-65 to +150	$^\circ\text{C}$

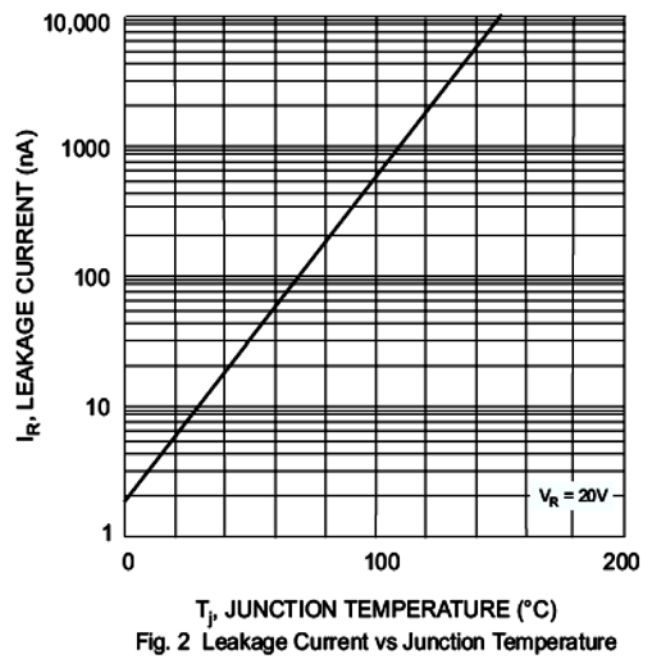
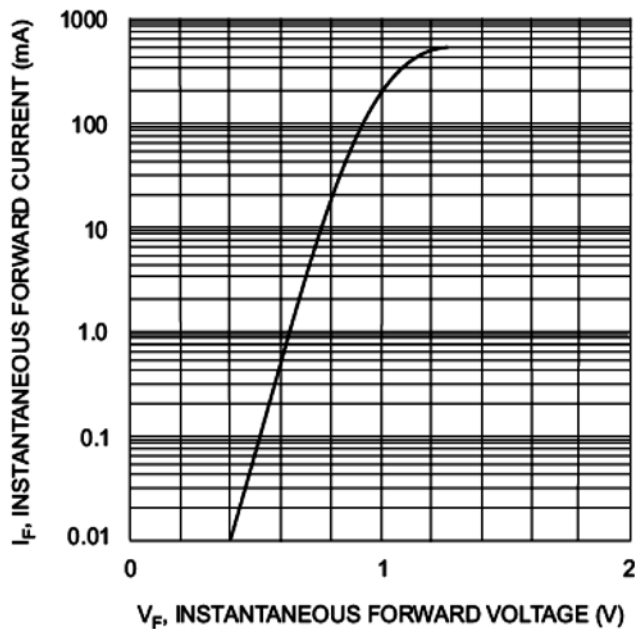
Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 100\mu A$	75	-	V
Forward voltage	V_F	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$	-	0.715 0.855 1 1.25	V
Junction capacitance	C_J	$V_R = 0V, f = 1MHz$	-	2	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10mA$, $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$	-	3	ns

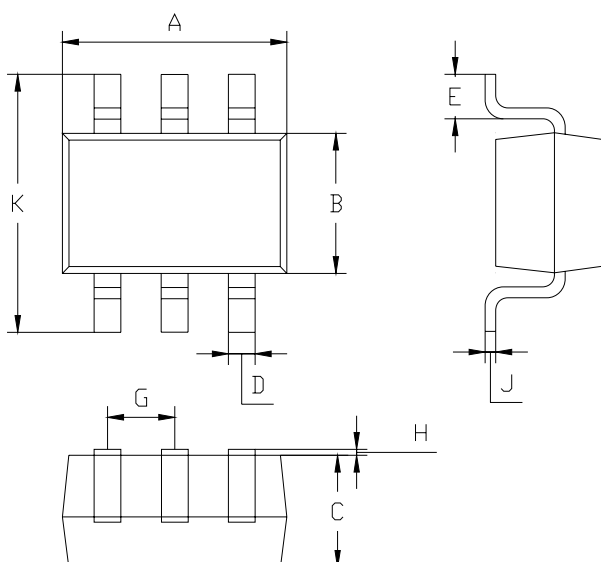
Surface Mount Fast Switching Diode



Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified



Plastic surface mounted package

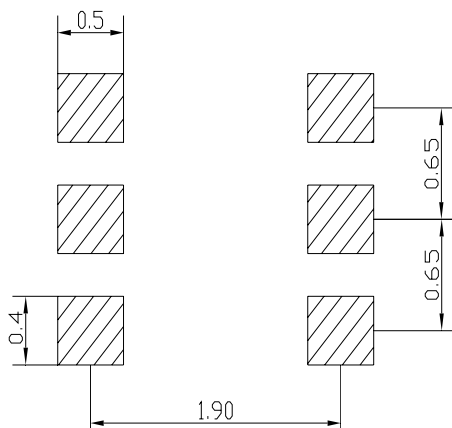


SOT-363		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1 Typical	
D	0.10	0.3
E	0.25	0.4
G	0.65 Typical	
H	0.02	0.1
J	0.1 Typical	
K	2.1	2.3
All Dimensions in mm		

Surface Mount Fast Switching Diode



Soldering Footprint



Unit : mm

Package Information

Device	Package	Shipping
BAV70DW-7-F	SOT-363	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Fast Switching Diode	BAV70DW-7-F

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