

Features

- Low Leakage Current
- Surface Mount Package Ideally Suited For Automatic Insertion
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

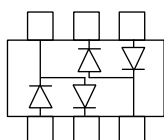
- Operating Junction Temperature Range: -65° C to +150°C
- Storage Temperature Range: -65°C to +150°C

MCC Part Number		Device Marking	
BAV199DW		K52	
Forward continuous Current	I_{FM}	160mA	
Power Dissipation	P_D	200mW	

Electrical Characteristics @ 25°C Unless Otherwise Specified

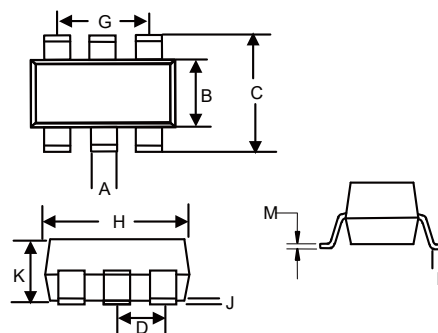
Reverse Voltage	V_R	85V	
Maximum Forward Voltage	V_F	0.90V 1.00V 1.10V 1.250V	$I_{FM}=1.0mA$ $I_{FM}=10.0mA$ $I_{FM}=50.0mA$ $I_{FM}=150.0mA$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5nA	$V_R=75V$
Typical Junction Capacitance	C_J	2.0pF	$V_R=0.0V, f=1.0MHz$
Reverse Recovery Time	t_{rr}	3μs	$I_F=10mA, I_R=10mA$ $I_{rr}=0.1 \cdot I_R, R_C=100\Omega$

Internal Structure



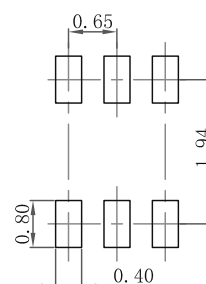
200mW 85Volt Plastic-Encapsulate Diode

SOT-363



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.006	0.014	0.15	0.35
B	0.045	0.053	1.15	1.35
C	0.079	0.096	2.00	2.45
D	0.026		0.65 Nominal	
G	0.047	0.055	1.20	1.40
H	0.071	0.087	1.80	2.20
J	-----	0.004	-----	0.10
K	0.031	0.043	0.80	1.10
L	0.010	0.018	0.26	0.46
M	0.003	0.006	0.08	0.15

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

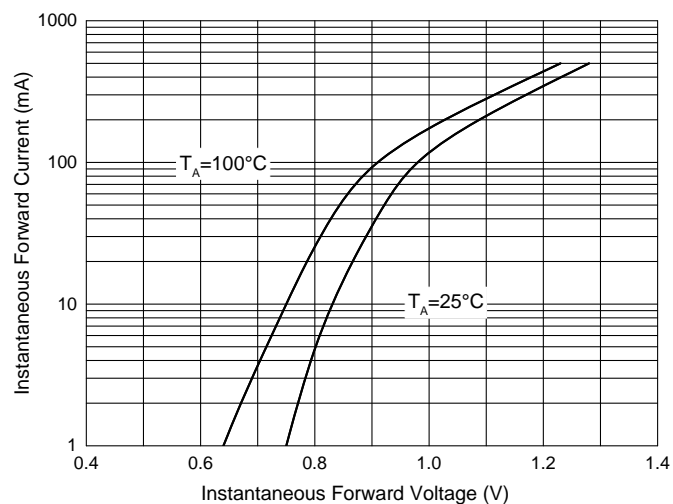


Fig. 2 - Typical Reverse Leakage Characteristics

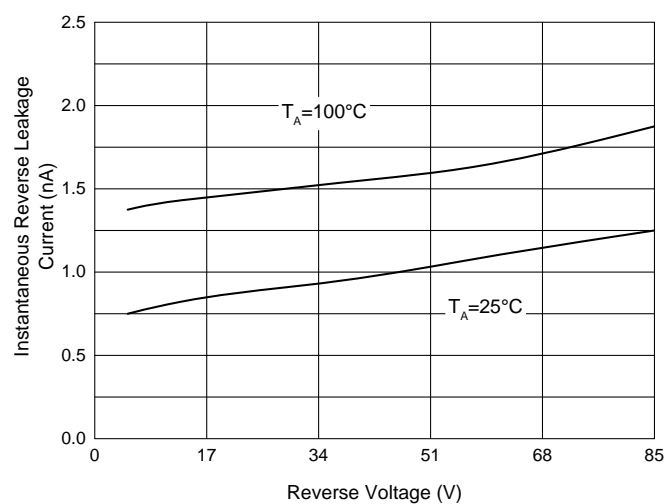
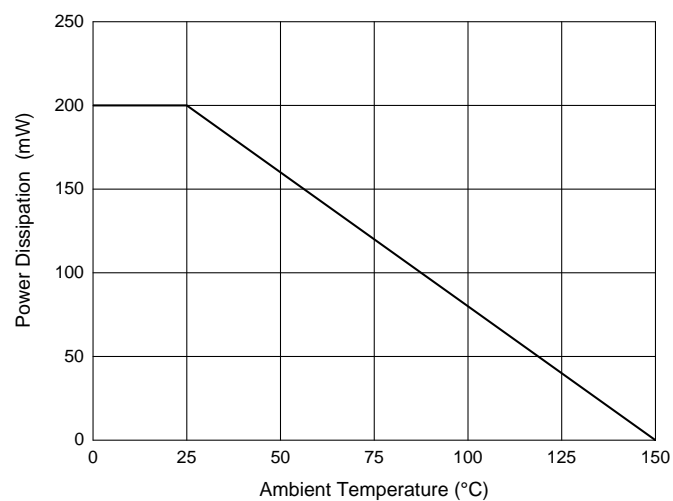


Fig. 3 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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