

Features

- · Low Leakage Leakage Current
- Surface Mount Package Ideally Suited For Automatic Insertion
- Halogen Free. "Green" Device (Note 1)
- · 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}	16	60mA		
Power Dissipation	P _D	20	0mW		

Electrical Characteristics @ 25°C Unless Otherwise Specified

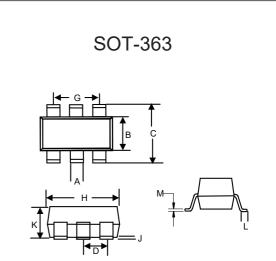
Reverse Voltage	V_{R}	85V	
Maximum Forward Voltage	V_{F}	0.90V 1.00V 1.10V 1.250V	I _{FM} =1.0mA I _{FM} =10.0mA I _{FM} =50.0mA I _{FM} =150.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5nA	V _R =75V
Typical Junction Capacitance	C _J	2.0pF	V _R =0.0V,f=1.0MHz
Reverse Recovery Time	t _{rr}	Зµѕ	$I_{F}=10\text{mA}, I_{R}=10\text{mA}$ $I_{rr}=0.1*I_{R}, R_{c}=100\Omega$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

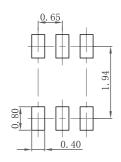


200mW 85Volt Plastic-Encapsulate Diode



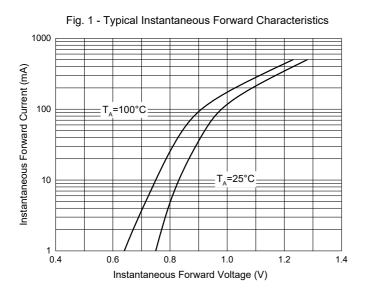
DIMENSIONS					
DIM	INCHES		М	M	NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.006	0.014	0.15	0.35	
В	0.045	0.053	1.15	1.35	
С	0.079	0.096	2.00	2.45	
D	0.026		0.65 Nominal		
G	0.047	0.055	1.20	1.40	
Н	0.071	0.087	1.80	2.20	
J		0.004		0.10	
K	0.031	0.043	0.80	1.10	
L	0.010	0.018	0.26	0.46	
M	0.003	0.006	80.0	0.15	-

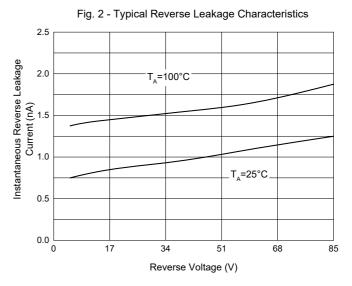
Suggested Solder Pad Layout

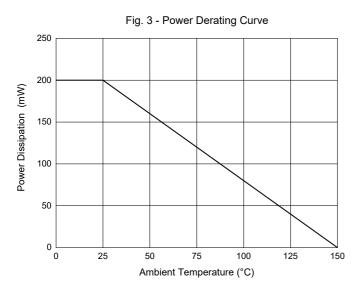




Curve Characteristics







Rev.3-3-12012020 2/3 MCCSEMI.COM



Ordering Information

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

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