

Features

- 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: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number			Device Marking		
BAS16TW			KA2		
MMBD4148TW			KA2		
Peak Forward Current	I _F	15	50mA		
Power Dissipation	P_{D}	20	0mW	T _A =25°C	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Voltage	V_{R}	75V	I _R =100μA
Maximum Forward Voltage	V _F	0.715V 0.855V 1.000V 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	1.0µA 0.025µA	V _R =75V V _R =20V
Diode Capacitance	C_D	2.0pF	V _R =0.0V,f=1.0MHz
Reverse Recovery Time	t _{rr}	4.0ns	I _F =10mA, I _R =10mA I _{rr} =0.1*I _R , R _L =100Ω

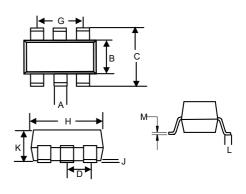
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



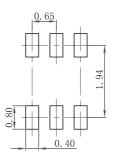
200mW Switching Diode





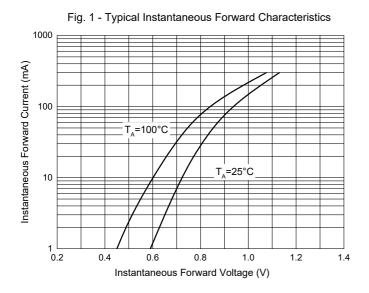
DIMENSIONS						
DIM	INCHES		М	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.006	0.014	0.15	0.35		
В	0.045	0.053	1.15	1.35		
С	0.079	0.096	2.00	2.45		
D	0.026		0.65 Nominal			
G	0.047	0.055	1.20	1.40		
Н	0.071	0.087	1.80	2.20		
J		0.004		0.10		
K	0.031	0.043	0.80	1.10		
L	0.010	0.018	0.26	0.46		
М	0.003	0.006	0.08	0.15	·	

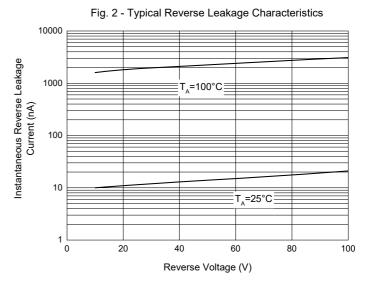
Suggested Solder Pad Layout

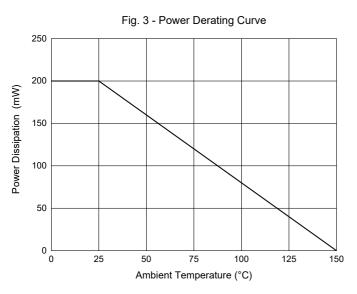




Curve Characteristics









Ordering Information

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

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