

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Forward Voltage and Reverse Recovery Characteristics
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C /W Junction to Ambient

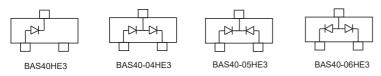
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS40HE3	43	40V	40V
BAS40-04HE3	44	40V	40V
BAS40-05HE3	45	40V	40V
BAS40-06HE3	46	40V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

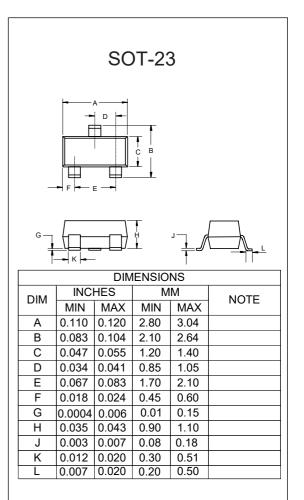
Average Forward Current	I _{F(AV)}	200mA	25°C
Peak Forward Surge Current	I _{FSM}	600mA	tp<1s, Ta=25°C
Power Dissipation	P _d	200mW	T _A = 25 °C
Maximum Forward Voltage	V _F	380mV 1000mV	I _F =1.0mA I _F =40mA
DC Reverse Current at Rated DC Blocking Voltage	I _R	10 nA(TYP) 200nA(MAX)	tp < 300µs,V _R = 30V
Min Reverse Breakdown Voltage	V_{BR}	40V	I _R =10µA
Typical Junction Capacitance	CT	5pF	Measured at 1.0MHz, V _R =0.0V
Maximum Reverse Recovery Time	t _{rr}	5.0ns	I_{rr} =1mA, I_{R} = I_{F} =10mA 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.

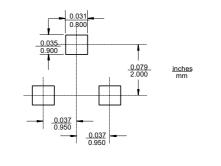
Internal Structure:





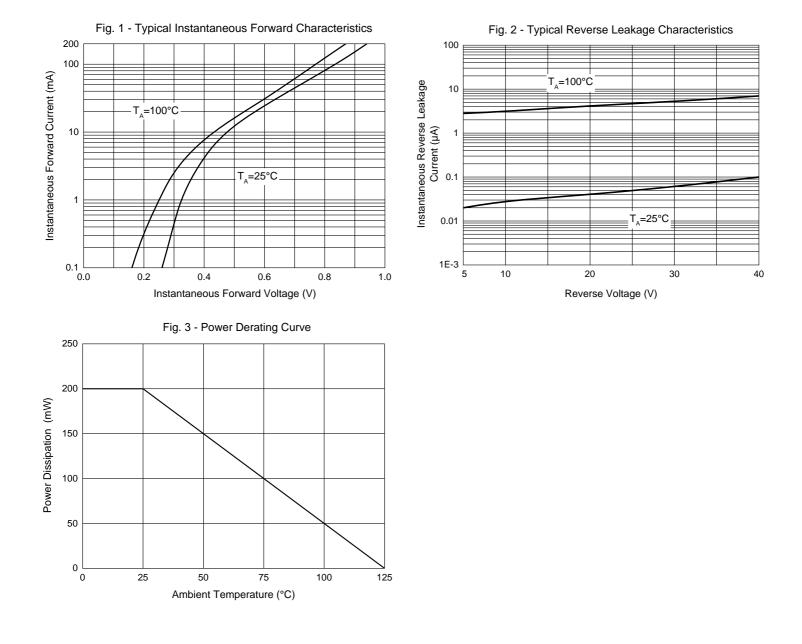


Suggested Solder Pad Layout





Curve Characteristics





Ordering Information

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

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