

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 C _T		5pF	Measured at 1.0MHz, V _R =0.0V	
Maximum Reverse Recovery Time	t _{rr}	5.0ns	I_r =1mA, I_R = I_F =10mA R_L =100 Ω	

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:



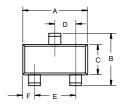


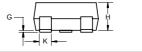




200mW,40V Schottky Barrier Diode

SOT-23

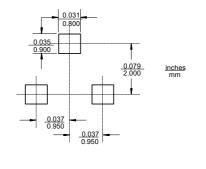






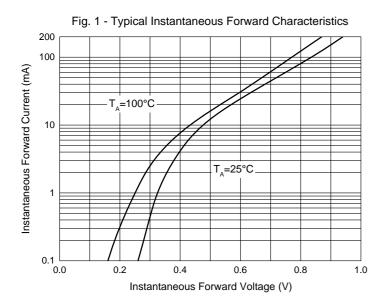
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
Е	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		

Suggested Solder Pad Layout





Curve Characteristics



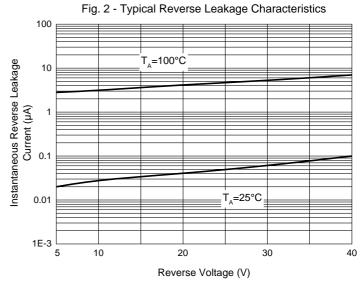


Fig. 3 - Power Derating Curve

250

200

150

50

0

255

Ambient Temperature (°C)



Ordering Information

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

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