

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
Ī	BAS40HE3	43	40V	40V
Ī	BAS40-04HE3	44	40V	40V
Ī	BAS40-05HE3	45	40V	40V
Ī	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	Ст	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:

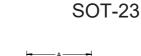


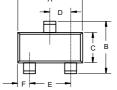


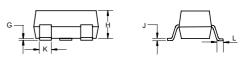




200mW,40V Schottky Barrier Diode

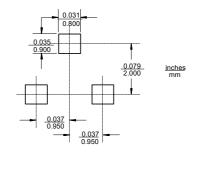






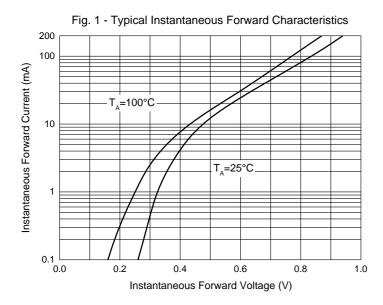
DIMENSIONS								
DIM	INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE			
Α	0.110	0.120	2.80	3.04				
В	0.083	0.104	2.10	2.64				
С	0.047	0.055	1.20	1.40				
D	0.034	0.041	0.85	1.05				
Е	0.067	0.083	1.70	2.10				
F	0.018	0.024	0.45	0.60				
G	0.0004	0.006	0.01	0.15				
Н	0.035	0.043	0.90	1.10				
J	0.003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

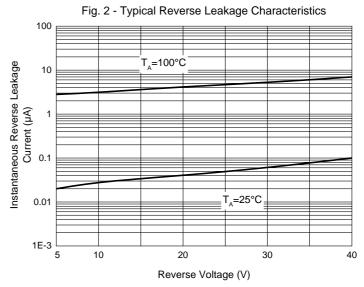
Suggested Solder Pad Layout

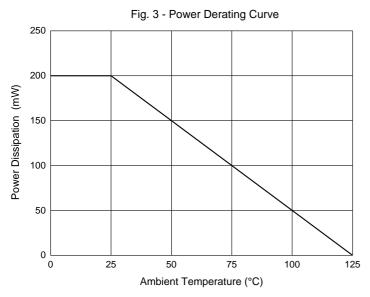




Curve Characteristics







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



Ordering Information

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

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SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G SB007-03C-TB-E SK32A-TP SK33B-TP
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