

**Features**

- Halogen Free
- 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**

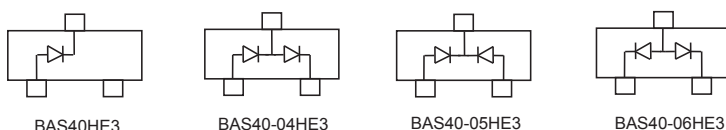
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C /W Junction to Ambient

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**

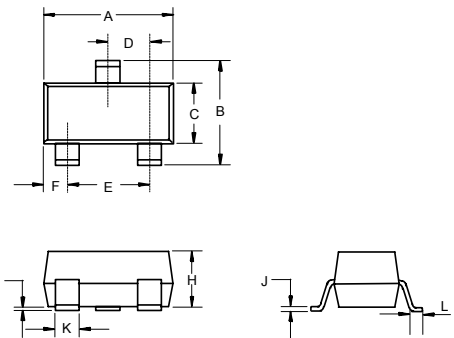
Average Forward Current	$I_{F(AV)}$	200mA	25°C
Peak Forward Surge Current	$I_{FSM}$	600mA	tp<1s, Ta=25°C
Power Dissipation	$P_d$	200mW	T <sub>A</sub> = 25 °C
Maximum Forward Voltage	$V_F$	380mV 1000mV	$I_F=1.0mA$ $I_F=40mA$
DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10 nA(TYP) 200nA(MAX)	tp < 300µs, V <sub>R</sub> = 30V
Min Reverse Breakdown Voltage	$V_{BR}$	40V	$I_R=10µA$
Typical Junction Capacitance	$C_T$	5pF	Measured at 1.0MHz, V <sub>R</sub> =0.0V
Maximum Reverse Recovery Time	$t_{rr}$	5.0ns	$I_{rr}=1mA, I_R=I_F=10mA$ $R_L=100Ω$

**Internal Structure:**



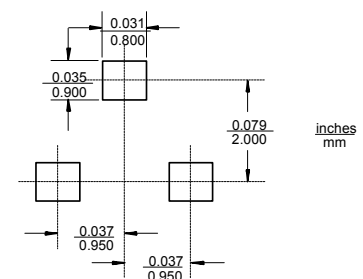
**200mW, 40V  
Schottky Barrier  
Diode**

**SOT-23**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.083	0.104	2.10	2.64	
C	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	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	
H	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. 1 - Typical Instantaneous Forward Characteristics

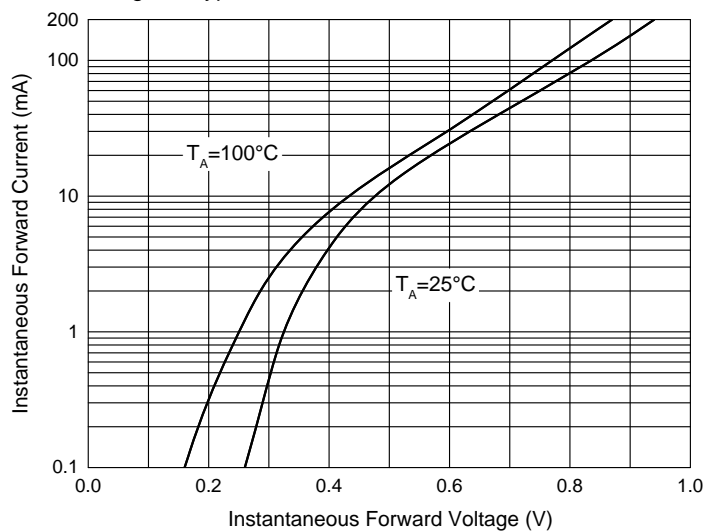


Fig. 2 - Typical Reverse Leakage Characteristics

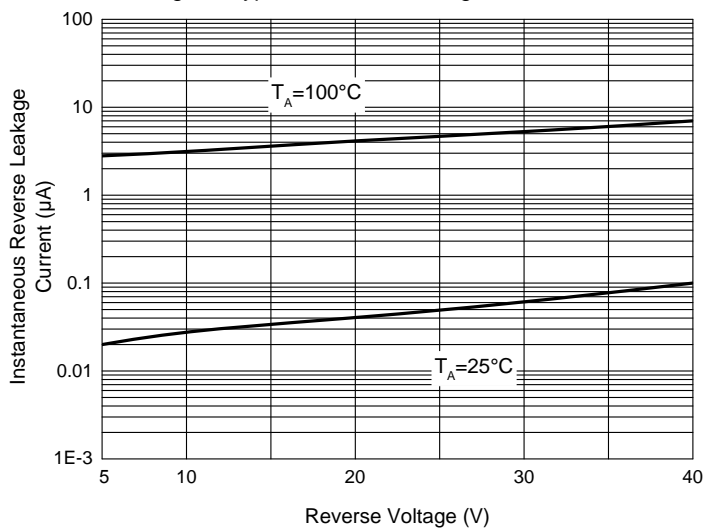
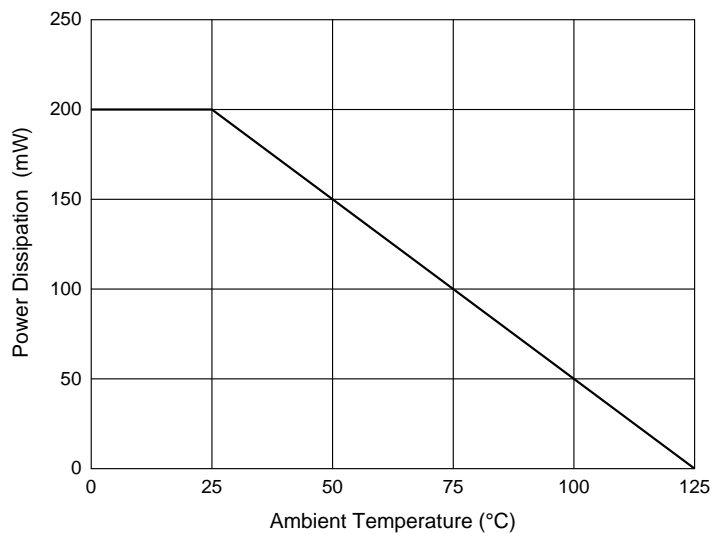


Fig. 3 - Power Derating Curve



## Ordering Information

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

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