

Features

- Halogen Free. "Green" Device (Note 1)
- Fully Automotive Qualified to AEC-Q101
- Low Forward Voltage
- 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 +150°C
 Storage Temperature Range: -55°C to +150°C
 Thermal Resistance: 625°C/W Junction to Ambient(Note2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R	
BAS40WTHQ	40V	28V	40V	
BAS40WT-04HQ	40V	28V	40V	
BAS40WT-05HQ	40V	28V	40V	
BAS40WT-06HQ	40V	28V	40V	

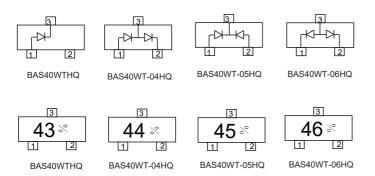
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	120mA	(Note 2)
Peak Forward Surge Current	I _{FSM}	2A	t<10ms
Power Dissipation	P_d	200mW	T _A = 25 °C

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

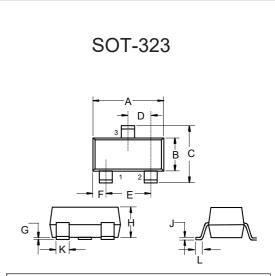
Note: 2.Mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code

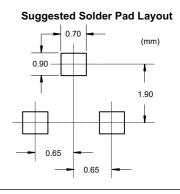


Note: 3. ≈ =placeholder for date code

200mW,40V Schottky Barrier Diode



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.071	0.087	1.80	2.20		
В	0.045	0.053	1.15	1.35		
С	0.083	0.096	2.10	2.45		
D	0.026		0.65		TYP.	
Е	0.047	0.055	1.20	1.40		
F	0.012	0.016	0.30	0.40		
G	0.000	0.004	0.00	0.10		
Н	0.035	0.044	0.90	1.10		
J	0.002	0.010	0.05	0.25		
K	0.006	0.016	0.15	0.40		
L	0.010	0.018	0.26	0.46		

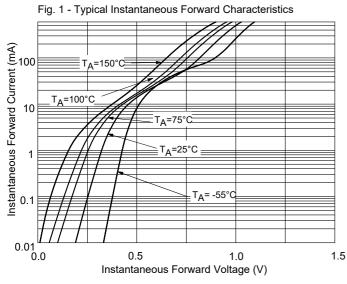


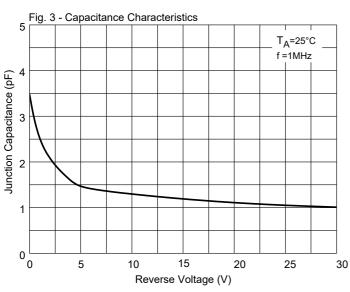


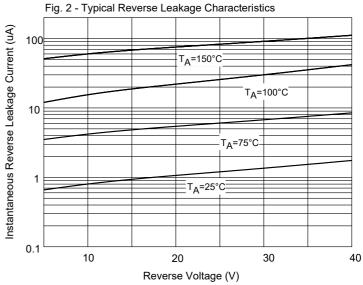
Electrical Characteristics @ 25°C Unless Otherwise Specified

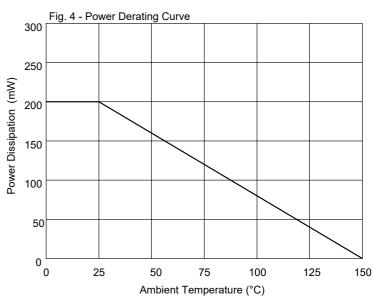
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =10μA	40			V
Forward Voltage	V _F	I _F =1mA			0.38	V
		I _F =40mA			1.00	V
Reverse Current	I _R	V _R =30V			0.20	uA
Junction Capacitance	CJ	V _R = 0V, f = 1MHz			5	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_m = 0.1 \times I_R, R_L = 100 \Omega$			7	ns

Curve Characteristics











Ordering Information

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

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