

Features

- Fast Switching
- · Low Forward Voltage Drop
- Low Power Dissipation
- Ultra-Small Surface Mount Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- 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 +125°C

• Thermal Resistance: 500°C/W Junction to Ambient

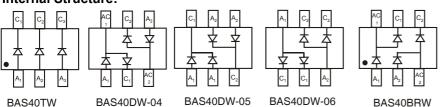
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage		
BAS40TW	K43 or 4.3	40V	40V		
BAS40DW-04	K44	40V	40V		
BAS40DW-05	K45	40V	40V		
BAS40DW-06	K461	40V	40V		
BAS40BRW	K47	40V	40V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

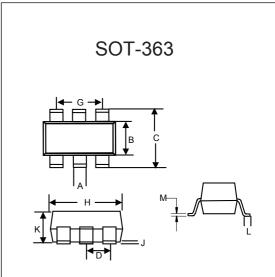
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Average Forward Current	I _F	200mA	
Power Dissipation	P_d	200mW	
Minimum Reverse breakdown voltage	V _(BR)	40V	I _R = 10μA
Maximum Forward Voltage	V _F	380mV 1000mV	I _F =1.0mA I _F =40mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.2µA	V _R = 30V
Maximum Junction Capacitance	Ст	5.0pF	Measured at 1.0MHz, V _R =0.0V
Maximum Reverse Recovery Time	t _{rr}	5.0nS	$I_F=10\text{mA}, I_R=I_F=1\text{mA}$ $R_L=100\Omega$

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:

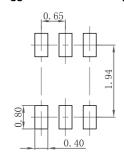


200mW, 40Volt Schottky Barrier Diode



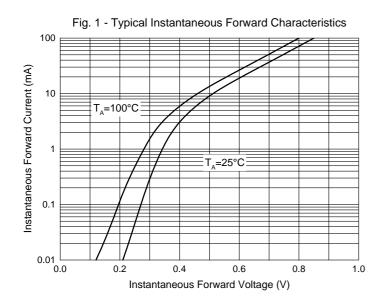
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.006	0.014	0.15	0.35		
В	0.045	0.053	1.15	1.35		
С	0.079	0.096	2.00	2.45		
D	0.026		0.65 Nominal			
G	0.047	0.055	1.20	1.40		
Н	0.071	0.087	1.80	2.20		
J		0.004		0.10		
K	0.031	0.043	0.80	1.10		
L	0.010	0.018	0.26	0.46		
M	0.003	0.006	80.0	0.15		

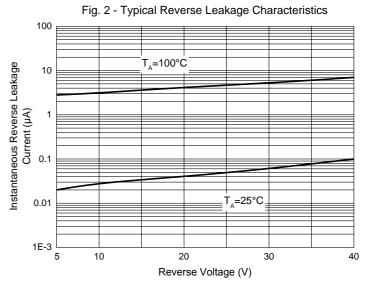
Suggested Solder Pad Layout

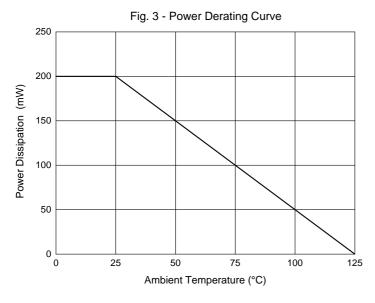




Curve Characteristics







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BAS40TW,BAS40DW-04,BAS40DW-05,BAS40DW-06,BAS40BRW

Ordering Information

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

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