



THE DATASHEET OF BAS40DW-05-TP





**BAS40TW/DW-04/
 DW-05 /DW-06 /BRW**

Features

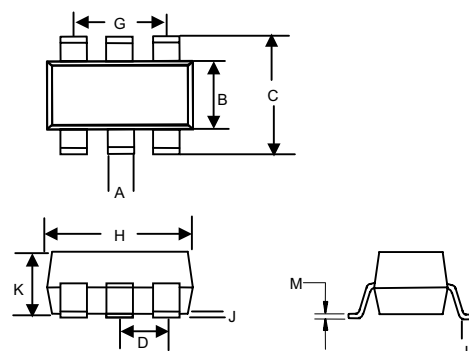
- Fast Switching
- Low Forward Voltage Drop
- Low Power Dissipation
- Ultra-Small Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

**200mW
 SCHOTTKY BARRIER
 Diode**

SOT-363

Maximum Ratings

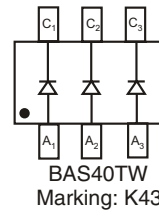
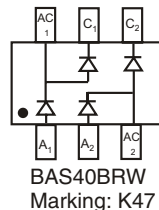
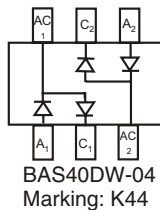
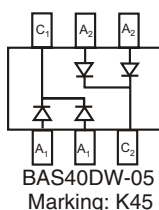
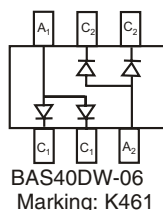
Symbol	Rating	Rating	Unit
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	40	V
I_O	Average Rectified Output Current	200	mA
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	625	$^{\circ}C/W$
P_D	Power dissipation	200	mW
T_J	Junction Temperature	-55 to +125	$^{\circ}C$
T_{STG}	Storage Temperature	-65 to +125	$^{\circ}C$



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse breakdown voltage	40V	-----	$I_R = 10\mu A$
I_R	Reverse Voltage Leakage Current	---	200nA	$V_R = 30V$
V_F	Forward Voltage	---	0.38V 1.0V	$I_F = 1mA$ $I_F = 40mA$
C_T	Total Capacitance	---	5pF	$V_R = 0V, f = 1MHz$
t_{rr}	Reverse Recovery Time	---	5.0ns	$I_F = 10mA, I_R = I_F = 1mA$ $R_L = 100\Omega$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	



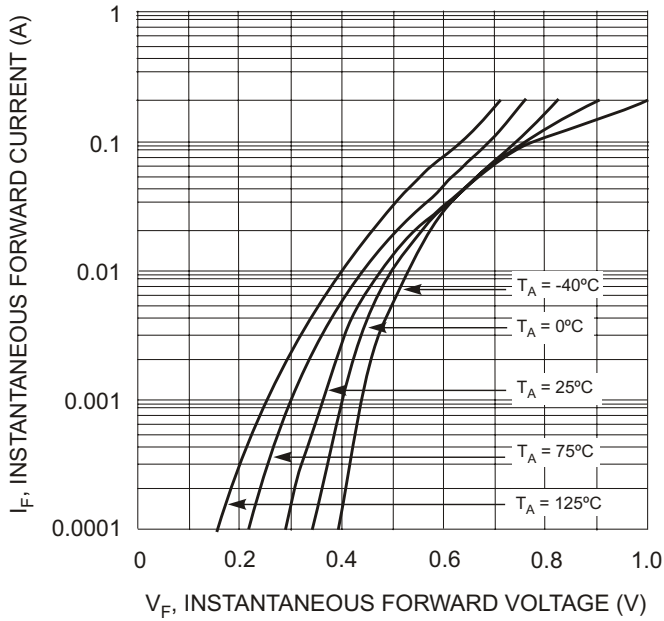


Fig. 1 Typical Forward Voltage

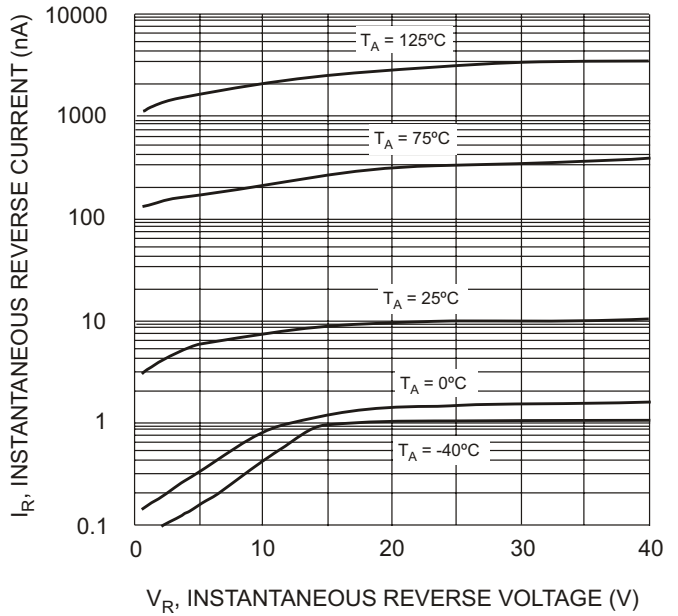


Fig. 2 Typical Reverse Characteristics

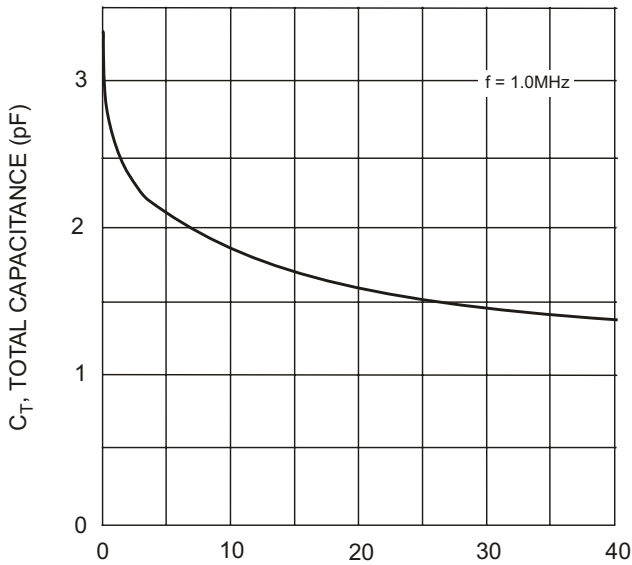


Fig. 3 Typical Capacitance

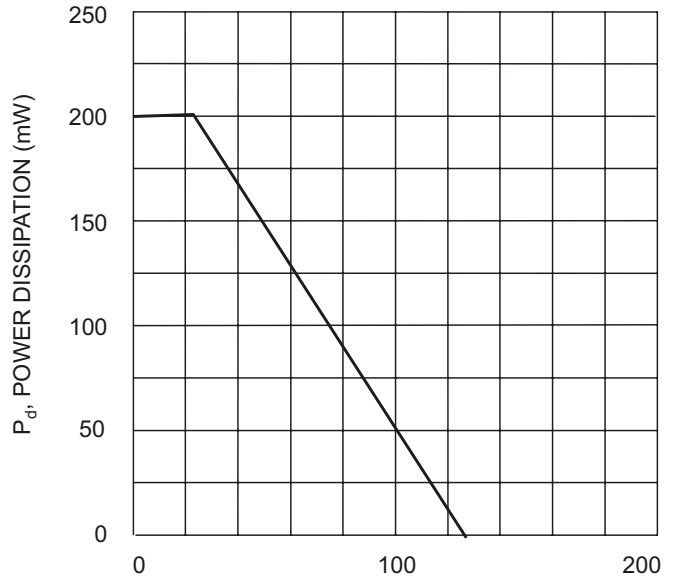


Fig. 4 Power Derating Curve, Total Package



TM

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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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