BAS40W/-04/05/06

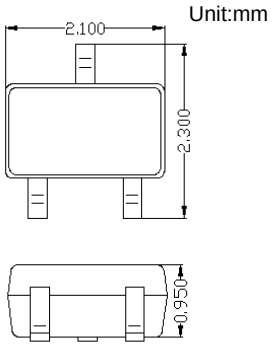
Schottky Diode

Features

- Small Outline Surface Mount Package
- Low Current Leakage
- For high-speed switching applications

Device Marking Code	
BAS40W	43
BAS40W-04	44
BAS40W-05	45
BAS40W-06	46

SOT-323





BAS40W　BAS40W-04　BAS40W-05　BAS40W-06

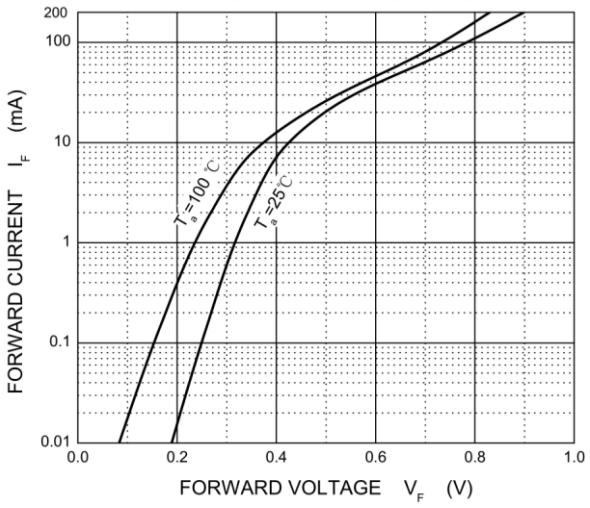
Maximum Ratings @Ta=25℃

Symbol	Parameter	Value	Units
V_{RRM}	Peak Repetitive Reverse Voltage	40	V
V_{RWM}	Working Peak Reverse Voltage	40	V
V_R	DC Blocking Voltage	40	V
I_{FM}	Forward Continuous Current	200	mA
P_D	Power Dissipation	200	mW
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	500	℃/W
T_j	Junction Temperature	125	℃
T_{stg}	Storage Temperature Range	-55~+150	℃

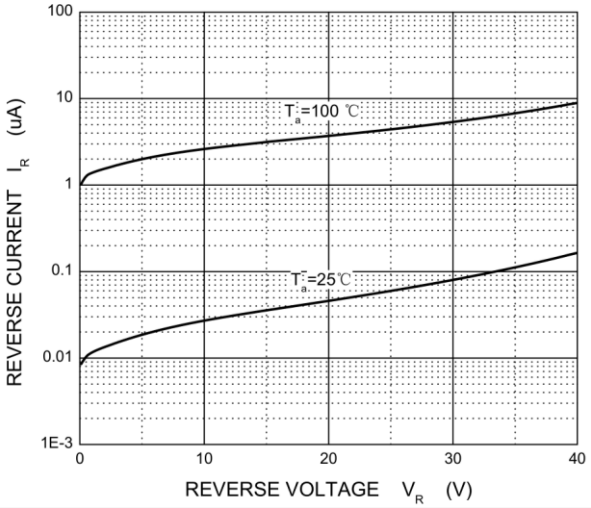
Electrical Characteristics @Ta=25℃

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
$V_{(BR)}$	Reverse breakdown voltage	I_R=10uA	40			V
I_R	Reverse voltage leakage current	V_R=30V			200	nA
V_F	Forward voltage	I_F=1mA			380	mV
		I_F=40mA			1000	mV
C_D	Diode capacitance	V_R=0V,f=1MHZ			5	pF
t_{rr}	Reverse recovery time	Irr=1mA ,I_R=I_F=10mA, R_L=100Ω			5	nS

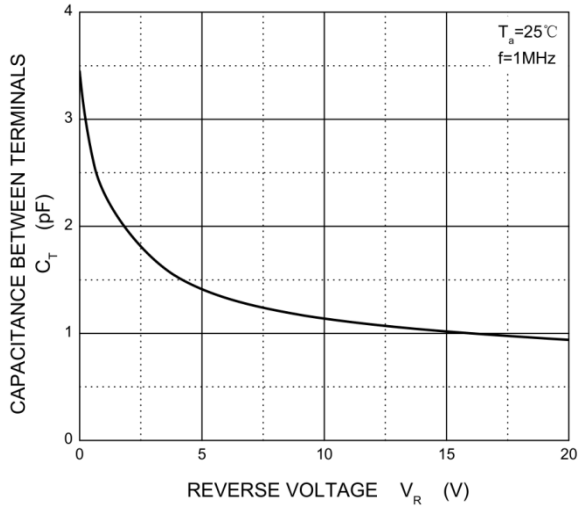
Typical Characteristics



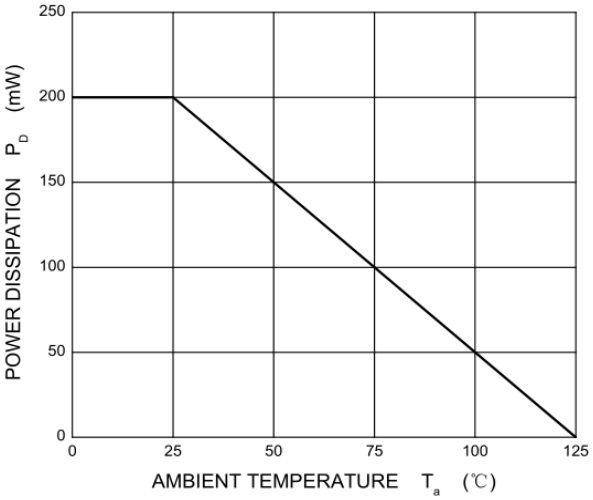
Forward Characteristics



Reverse Characteristics



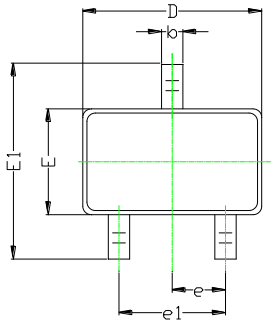
Capacitance Characteristics



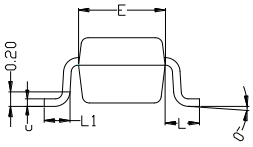
Power Derating Cure

SOT-323 Package Outline Dimensions

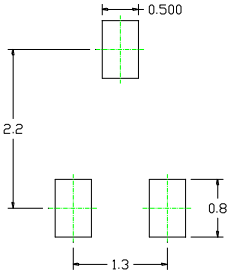
TOP VIEW



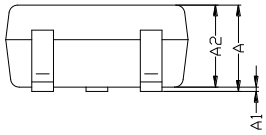
SIDE VIEW



SOLDERING PATTERN



FRONT VIEW



SYMBOL	DIMENSIONS IN MILLIMETER	
	MIN	MAX
A	0.900	1.000
A1	0.00	0.100
A2	0.900	1.000
b	0.200	0.400
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
θ	0°	8°

Notice:

1.Lead plating: Pb free solder
2.Lead thickness includes solder plating
3.Lead frame: CAC-5
4.Other Tolerance: ±0.05
5.Unit: mm
6. Dimensions are exclusive of Burrs,Mold Flash and Tie Bar extrusions

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification
BAS40W/ -04/-05/-06	SOT-323	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive

NOTICE

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