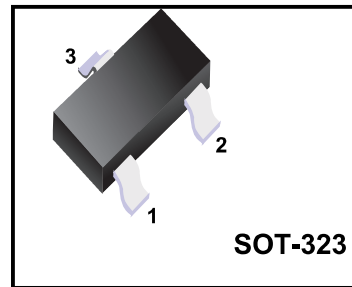


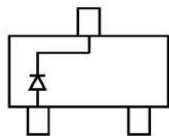
Plastic-Encapsulate Diodes

SCHOTTKY BARRIER DIODE

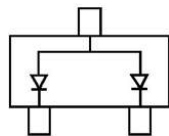


FEATURES

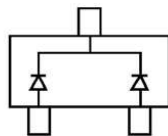
- Low Forward Voltage
- Fast Switching



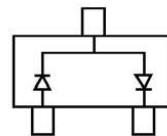
BAS40W MARKING: 43•



BAS40W-06 MARKING: 46



BAS40W-05 MARKING: 45



BAS40W-04 MARKING: 44

MARKING:

BAS40W	BAS40W-06	BAS40W-05	BAS40W-04

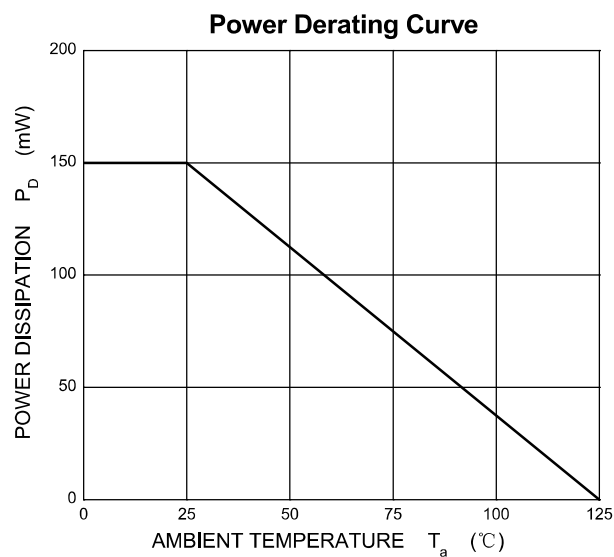
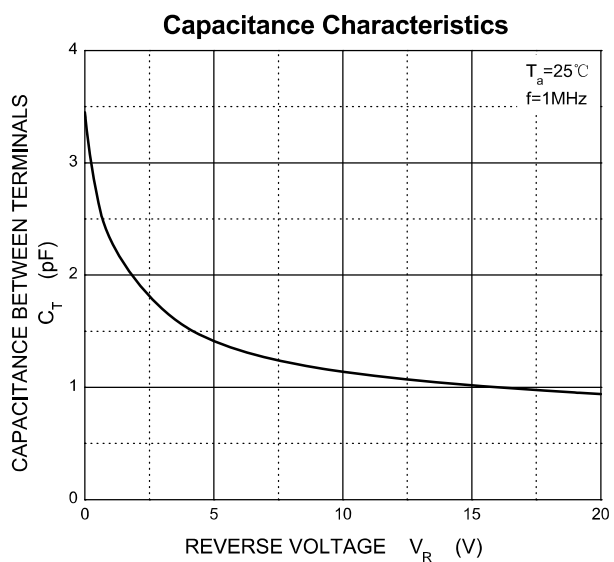
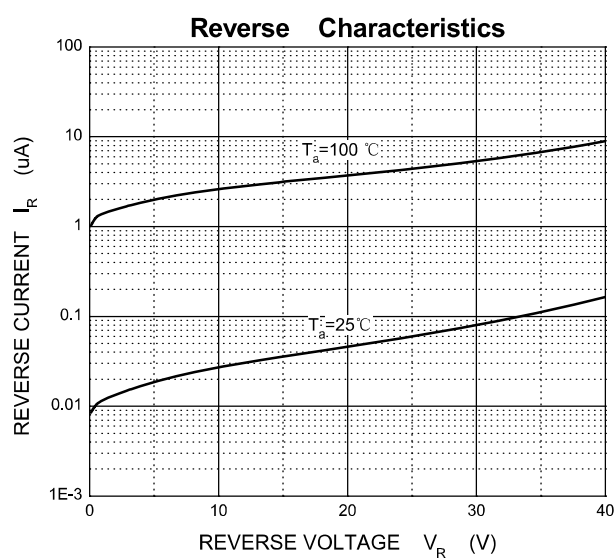
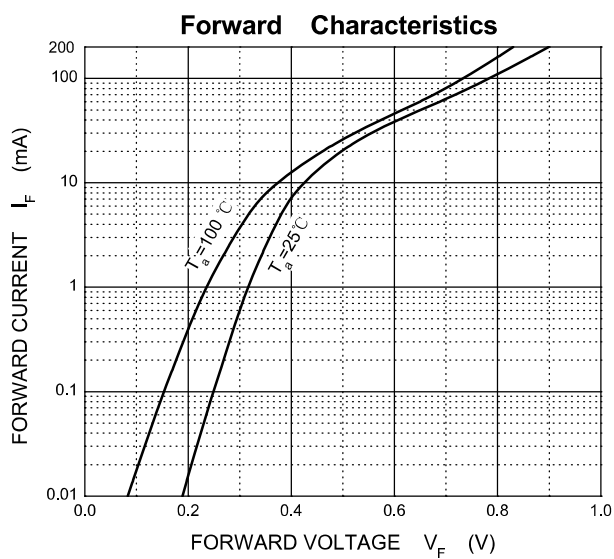
Solid dot = Green molding compound device, if none, the normal device.

Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage	V_{RRM}	40	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
Forward continuous current	I_{FM}	200	mA
Power dissipation	P_D	150	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	667	°C/W
Junction temperature	T_J	125	°C
Storage temperature range	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 10\mu A$	40		V
Reverse voltage leakage current	I_R	$V_R = 30V$		200	nA
Forward voltage	V_F	$I_F = 1mA$ $I_F = 40mA$		380 1000	mV
Diode capacitance	C_D	$V_R = 0, f = 1MHz$		5	pF
Reverse recovery time	t_{rr}	$I_{rr} = 1mA, I_R = I_F = 10mA$ $R_L = 100\Omega$		5	ns



Ordering information

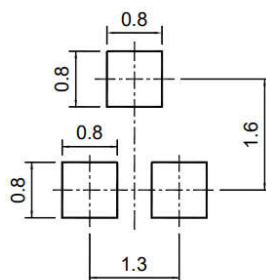
Package	Packing Description	Base Quantity	Packing Quantity
SOT-323	Tape/Reel, 7" reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-323

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
A1	0.1		4	
bp	0.3	0.4	12	16
C	0.10	0.25	4	10
D	1.8	2.2	71	87
E	1.15	1.35	45	53
E	1.3		51	
E1	0.65		26	
HE	2.0	2.2	79	87
Lp	0.15	0.45	6	18
Q	0.13	0.23	5.1	9
v	0.2		8	
W	0.2		8	

The recommended mounting pad size



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