



### SURFACE MOUNT SCHOTTKY DIODES

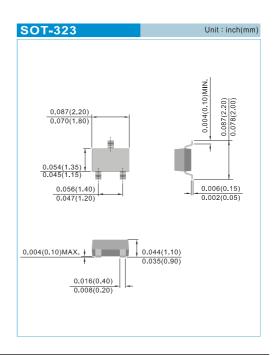
VOLTAGE 40 Volt CURRENT 0.2 Ampere

#### **FEATURES**

- · Fast switching speed
- Surface mount package ideally suited for automatic insertion Electrical identical standard JEDEC
- · High conductor
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

- Case: SOT-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.005 grams

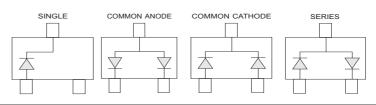


#### **ABSOLUTE RATINGS**

PARAMETER	SYMBOL	BAS40W	BAS40AW	BAS40CW	BAS40SW	UNITS
Marking Code		S40	S42	S43	S44	
Reverse Voltage	VR			40		V
Peak Reverse Voltage	VRRM			40		V
Average Rectified Current at Temp=25°C	lf(AV)	0.2		А		
Non-repetitive Peak Forward Surge Current at t=1.0 s	IFSM		(	0.6		А

#### THERMAL CHARACTERISTICS

PARAMETER	Symbol	BAS40W	BAS40AW	BAS40CW	BAS40SW	Units
Power Dissipation	Ртот	225				mW
Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	556				°C/W
Storage and Operating Temperature Range	$T_{STG,}T_{J}$	-55 to 150			°C	
Circuit Figure		SINGLE	COMMON ANODE	COMMON CATHODE	SERIES	





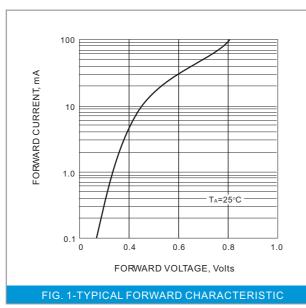


### **ELECTRICAL CHARACTERISTICS**

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V <sub>(BR)</sub>	I R=10 uA	40			V
Reverse Current	IR	VR=25V		-	1.0	uA
Forward Voltage	VF	F=1.0mA   F=10mA   F=40mA	1	-	0.38 0.50 1.00	V
Total Capacitance	Ст	VR=0V, f=1.0MHz		-	5.0	pF



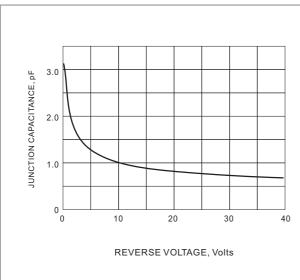




10 T<sub>J</sub>=125°C 10 T<sub>J</sub>=25°C 10 T

100





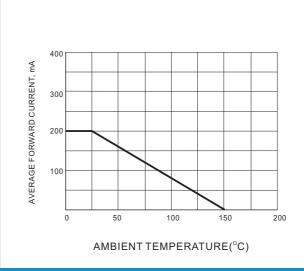
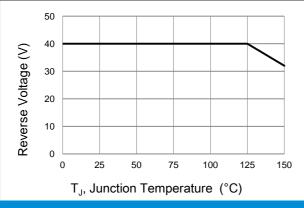


FIG. 3 TYPICAL JUNCTION CAPACITANCE

FIG. 4 FORWARD CURRENT DERATING

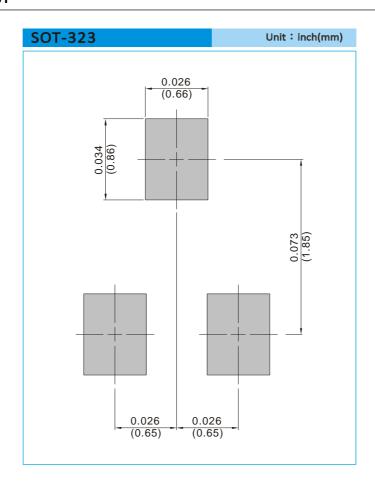


**Fig.5 Operating Temperature Derating Curve** 





### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





### Part No\_packing code\_Version

BAS40W\_R1\_00001 BAS40W\_R2\_00001

## For example:



Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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