

### SURFACE MOUNT SCHOTTKY DIODES

40 Volt CURRENT 0.2 Ampere

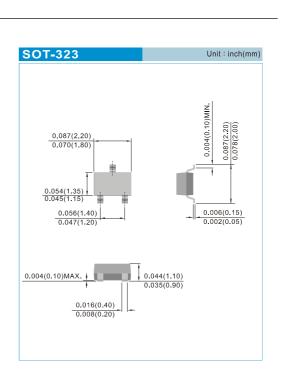
### FEATURES

VOLTAGE

- · Fast switching speed
- Surface mount package ideally suited for automatic insertion Electrical identical standard JEDEC
- · High conductor
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### MECHANICAL DATA

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

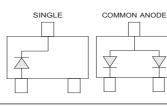


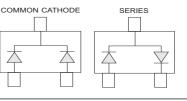
#### **ABSOLUTE RATINGS**

PARAMETER	SYMBOL	BAS40W	BAS40AW	BAS40CW	BAS40SW	UNITS
Marking Code		S40	S42	S43	S44	
Reverse Voltage	VR	40				V
Peak Reverse Voltage	Vrrm		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	P <sub>TOT</sub>	225				mW
Thermal Resistance , Junction to Ambient	R <sub>eja</sub>	556				°C/W
Storage and Operating Temperature Range	T <sub>stg,</sub> Tj	-55 to 150				٥C
Circuit Figure		SINGLE	COMMON ANODE	COMMON CATHODE	SERIES	



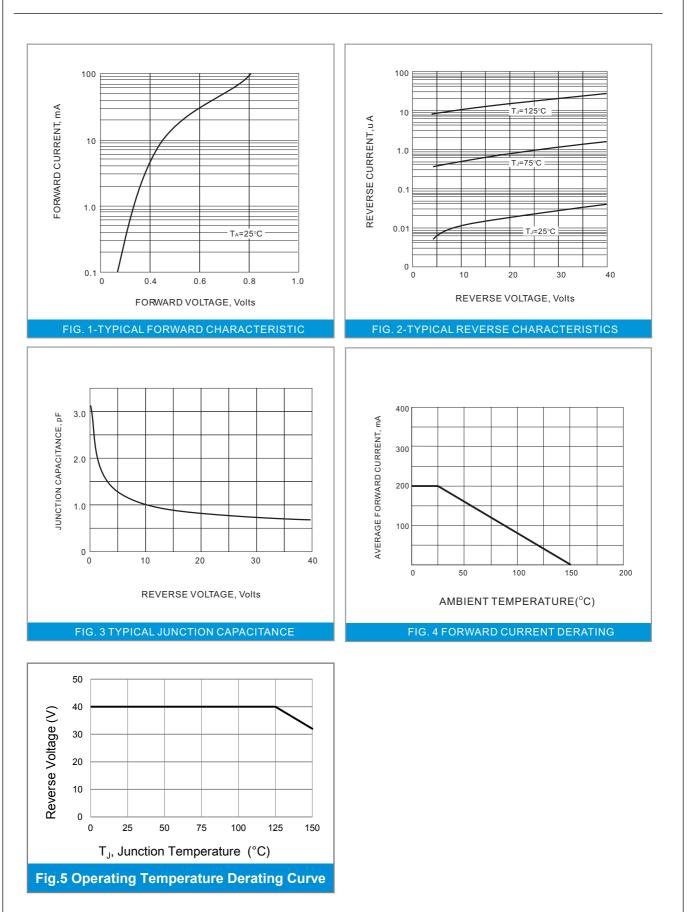




### **ELECTRICAL CHARACTERISTICS**

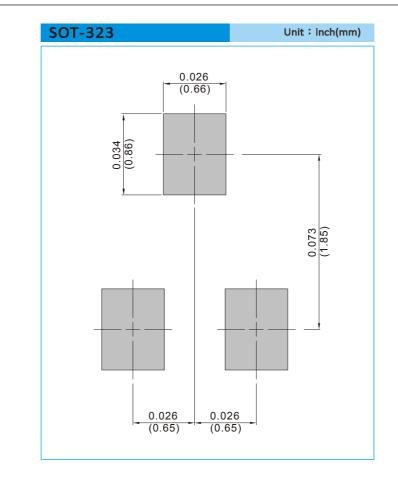
PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V(BR)	I R=10 uA	40	-		V
Reverse Current	l r	VR=25V		-	1.0	uA
Forward Voltage	VF	F=1.0mA   F=10mA   F=40mA	-	-	0.38 0.50 1.00	V
Total Capacitance	Ст	VR=0V, f=1.0MHz		-	5.0	pF







#### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel T/R - 3K per 7" plastic Reel



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