

SURFACE MOUNT SCHOTTKY DIODES

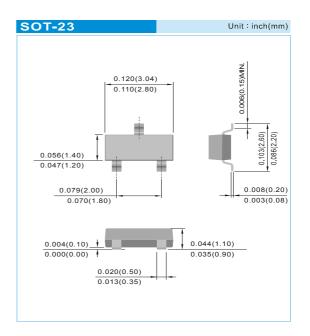
VOLTAGE 40 Volt CURRENT 0.2 Ampere

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 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.0003 ounces, 0.0084 grams

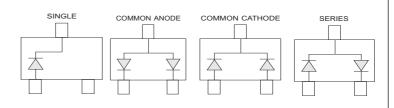


ABSOLUTE RATINGS

PARAMETER	Symbol	BAS40	BAS40A	BAS40C	BAS40S	Units
Marking Code		S40	S42	S43	S44	
Reverse Voltage	V _R	40				V
Peak Reverse Voltage	V _{RRM}	40			V	
Average Rectified Current at Temp=25°C	I _{F(AV)}	0.2			Α	
Non-repetitive Peak Forward Surge Current at t=1.0 s	I _{FSM}	0.6			А	

THERMAL CHARACTERISTICS

PARAMETER	Symbol	BAS40	BAS40A	BAS40C	BAS40S	Units
Power Dissipation	P _{тот}		mW			
Thermal Resistance , Junction to Ambient	$R_{_{\theta JA}}$		°C/W			
Junction Temperature	TJ		°C			
Storage Temperature at Temp=25°C	T _{stg}	-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 _(BR)	I _R =10 uA	40		-	V
Reverse Current	I _R	V _R =25 V	-	-	1.0	uA
Forward Voltage	V _F	I _F =1.0mA I _F =10mA I _F =40mA	-		0.38 0.50 1.00	V
Total Capacitance	C _T	V _R =0V, f=1.0MHz	-		5.0	pF



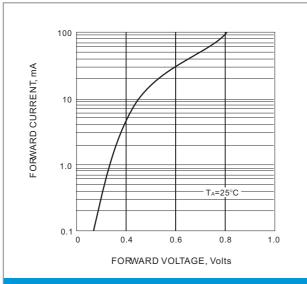


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

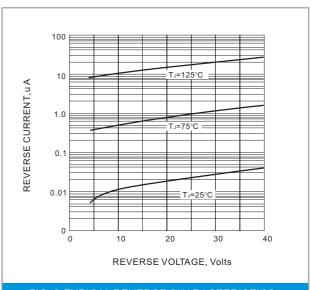


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

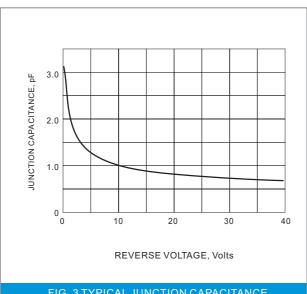


FIG. 3 TYPICAL JUNCTION CAPACITANCE

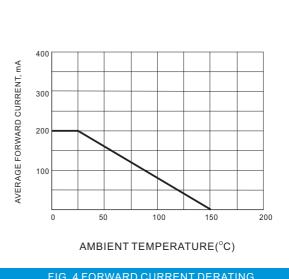
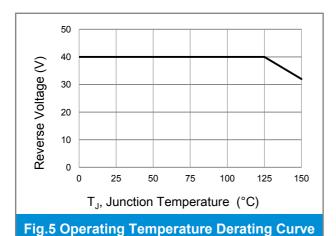


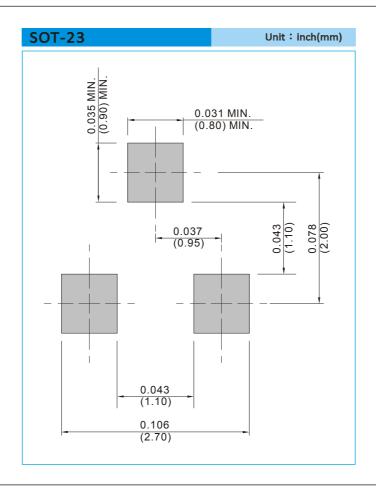
FIG. 4 FORWARD CURRENT DERATING



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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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