



SURFACE MOUNT SCHOTTKY DIODES

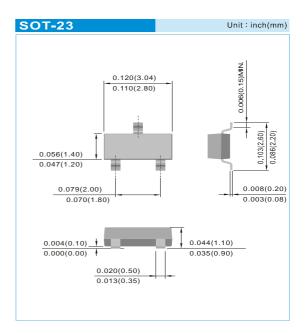
VOLTAGE 40 Volt CURRENT 0.2 Ampere

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

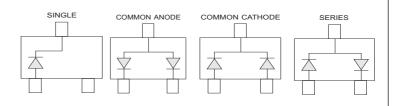


ABSOLUTE RATINGS

PARAMETER	Symbol	BAS40	BAS40A	BAS40C	BAS40S	Units
Marking Code		S40	S42	S43	S44	
Reverse Voltage	V _R		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 _{TOT}	225			mW	
Thermal Resistance , Junction to Ambient	$R_{_{\theta JA}}$	556				°C/W
Junction Temperature	TJ	150				°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	-	ı	0.38 0.50 1.00	V
Total Capacitance	C _T	V _R =0V, f=1.0MHz			5.0	pF





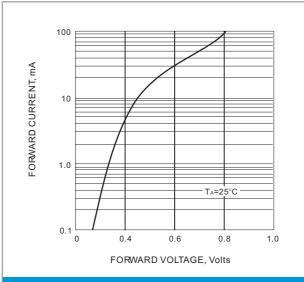


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

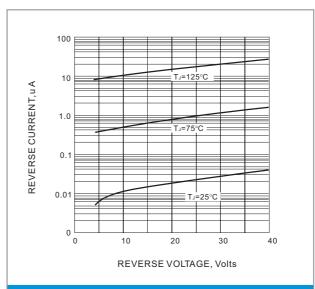
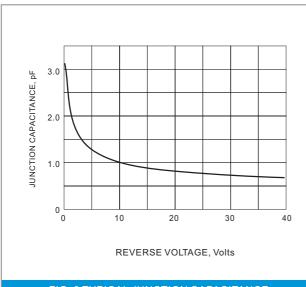


FIG. 2-TYPICAL REVERSE CHARACTERISTICS





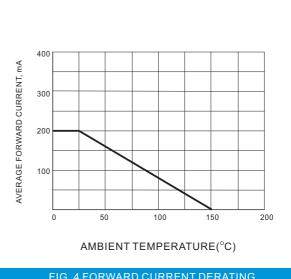


FIG. 4 FORWARD CURRENT DERATING

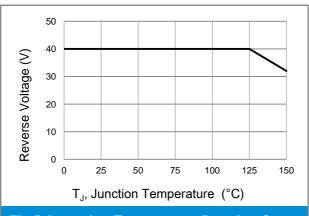
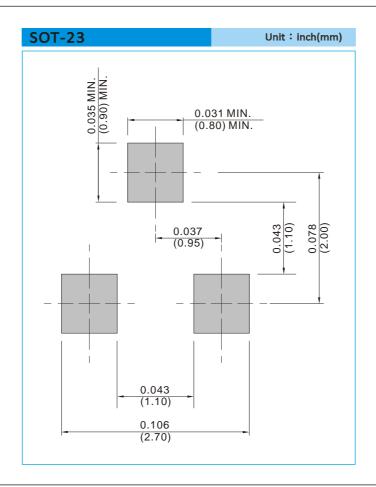


Fig.5 Operating Temperature Derating Curve





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

BAS40_R1_00001 BAS40_R2_00001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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	Y				
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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