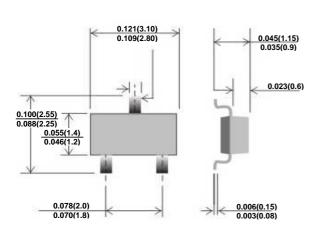


# **BAS70 SERIES**

## SURFACE MOUNT SCHOTTKY DIODES

Reverse Voltage - 70 Volts Forward Current - 0.2 Ampere

<u>SOT-23</u>



- Fast switching speed
- Surface mount package Ideally suited for automatic insertion

FEATURES

- Electrically identical to standerd JEDEC
- High Conductance
- ◆ Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std..(Halogen Free)

#### MECHANICAL DATA

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

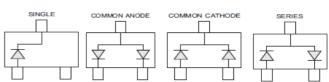
Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwis e specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

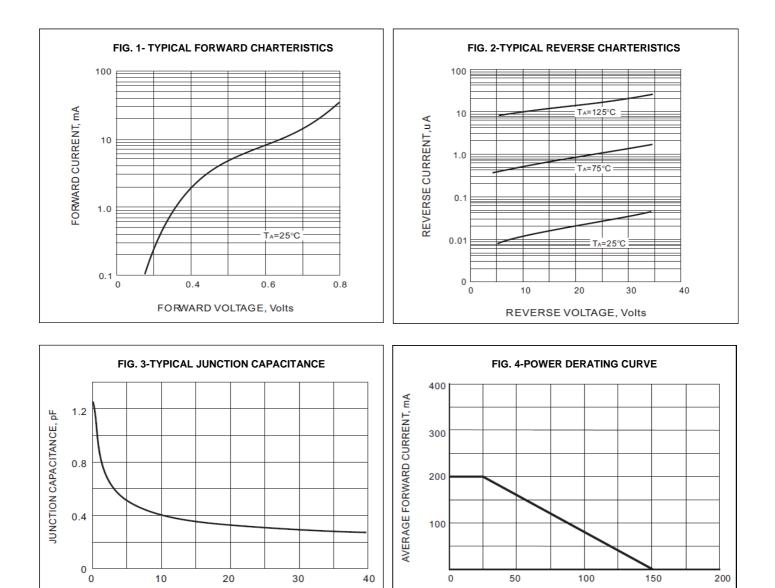
PARAMETER	SYMBOLS	BAS40	BAS40A	BAS40C	BAS40S	UNITS
Marking Code		A70	A72	A73	A74	Volts
Reverse Voltage	V <sub>R</sub>	70				Volts
Peak Reverse Voltage at I <sub>R</sub> =10µA	V <sub>RRM</sub>	70				Volts
Minimum Reverse Breakdown Voltage	V <sub>BR</sub>	70				Volts
Average Rectified Current at Temp =25 °C	I <sub>F(avg.)</sub>	0.2				mA
Non-repetitive Peak Forward Surge Current, at t=1.0s	I <sub>FSM</sub>	0.6				Amps
Power Di ssi pati on Derate Above 25°C	P <sub>TOT</sub>	225				mW
Maximum Forward Voltage	V <sub>F</sub>	0.41V @ I <sub>F</sub> =1.0 mA 0.75V @ I <sub>F</sub> = 10 mA 1.00V @ I <sub>F</sub> = 15 mA				Volts
$\begin{array}{llllllllllllllllllllllllllllllllllll$		1.0 0.1				μΑ
Typical Junction Capacitance (Notes 1)	CJ	2.0				pF
Typical Thermal Resistance	$R_{ hetaJA}$	556				°C/W
Junction Temperature and Storage Temperature Range	Τ <sub>stg</sub>	-55 ~ +150				C
Circuit Figure		Single	Common Anode	Common Cathode	Series	

Note: 1. C<sub>J</sub> at Reverse Voltage = 0V, f=1MHz



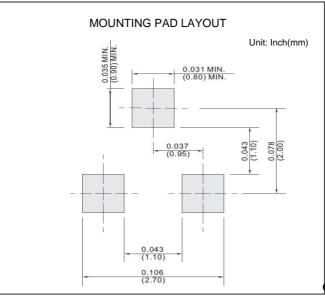


#### **RATINGS AND CHARACTERISTIC CURVES**



**REVERSE VOLTAGE, Volts** 





GOOD ELECTRONIC CO., LTD