

BAS40 SERIES

SURFACE MOUNT SCHOTTKY DIODES

Reverse Voltage - 40 Volts Forward Current - 0.2 Ampere

SOT-23

0.121(3.10) 0.109(2.80) 0.035(0.9) 0.023(0.6) 0.078(2.0) 0.078(2.0) 0.070(1.8)

FEATURES

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

 $\textbf{Terminals} : Solderable \ per \ MIL-STD-750 \ , \ Method \ 2026$

Approx. Weight: 0.0003 ounces, 0.0084 grams

Dimensions in inches and (millimeters)

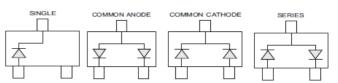
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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		S40	S42	S43	S44	Volts
Reverse Voltage	V _R	40				Volts
Peak Reverse Voltage	V_{RRM}	40				Volts
Minimum Reverse Breakdown Voltage	V_{BR}	40				Volts
Average Rectified Current at Temp =25 °C	I _{F(avg.)}	0.2				mA
Non-repetitive Peak Forward Surge Current, at t=1.0s	I _{FSM}	0.6				Amps
Power Di ssi pati on Derate Above 25°C	P _{TOT}	225				mW
Maximum Forward Voltage	V _F	$0.38V @ I_F=1.0 mA$ $0.50V @ I_F=10 mA$ $1.00V @ I_F=40 mA$				Volts
Maximum Reverse Current at 25V	I _R	1.0				μΑ
Typical Junction Capacitance (Notes 1)	CJ	5.0				pF
Typical Thermal Resistance	$R_{ heta JA}$	556				℃/W
Junction Temperature and Storage Temperature Range	T _{STG}	-55 ∼ + 150				C
Circuit Figure		Single	Common Anode	Common Cathode	Series	

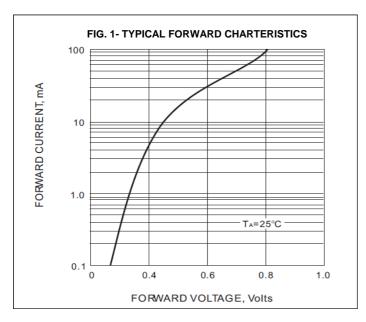
Note: 1. C_J at Reverse Voltage = 0V, f=1MHz

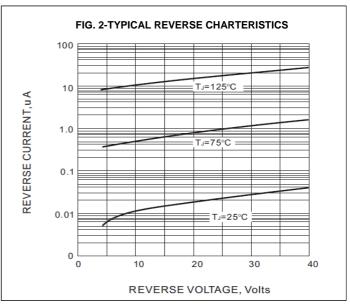


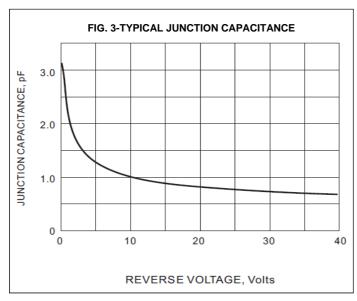


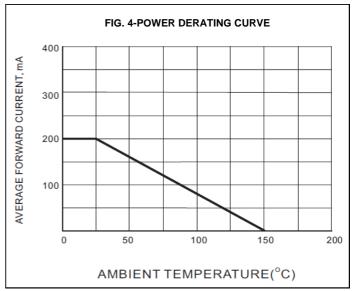
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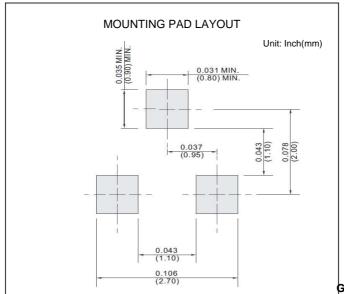
RATINGS AND CHARACTERISTIC CURVES











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