



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BAS40
BAS40-04
BAS40-05
BAS40-06

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER DIODES
VOLTAGE - 40 Volts
CURRENT - 0.2 Ampere

FEATURES

- * For general purpose applications
- * Low forward voltage drop.
- * Fast switching time.
- * Protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge(ESD).

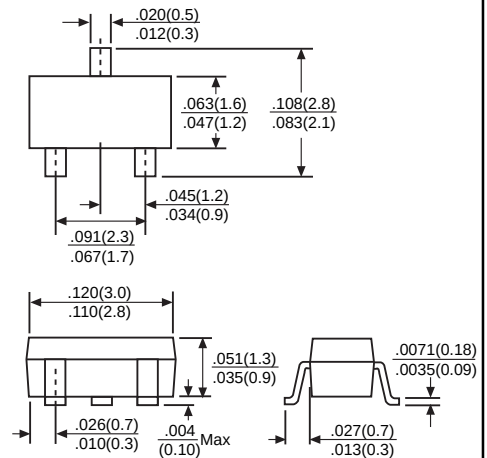
MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202E, Method 208 guaranteed
- * Mounting position: Any
- * Weight: 0.008 grams Approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

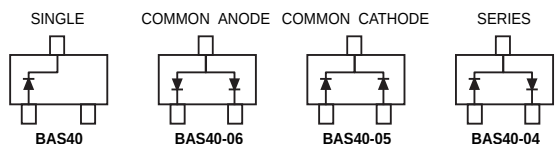
SOT-23



Dimensions in inches and (millimeters)

	SYMBOL	BAS40	BAS40-04	BAS40-05	BAS40-06	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40				Volts
Maximum RMS Voltage	V _{RMS}	28				Volts
Maximum DC Blocking Voltage	V _{DC}	40				Volts
Maximum Average Forward Rectified Current at T _A =25°C	I _O	0.2				Amps
Peak Forward Surge Current at t=1.0S	I _{FSM}	0.6				Amps
Maximum Instantaneous Forward Voltage	V _F	1.0 @ I _F =40mA				Volts
		0.38 @ I _F =1mA				
Maximum DC Reverse Current at T _A =25°C, V _R =25V	I _R	1.0				μAmps
Typical Junction Capacitance (Note)	C _J	5.0				pF
Storage Operating Temperature Range	T _J , T _{STG}	-55 to +150				°C

NOTES : Measured at 1 MHz and applied reverse voltage of 0 volts.



Pin Configuration (Top View)

RATING AND CHARACTERISTIC CURVES (BAS40, BAS40-04/05/06)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

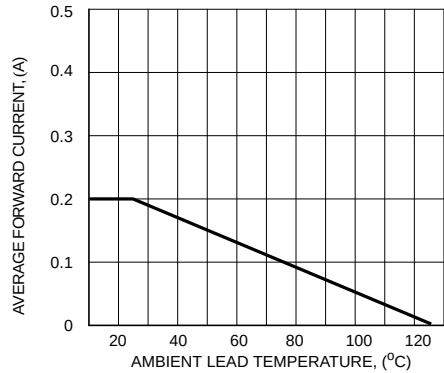


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

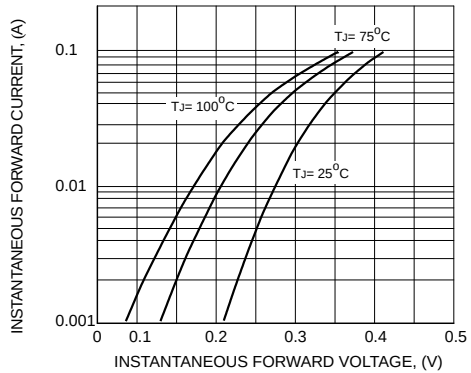


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

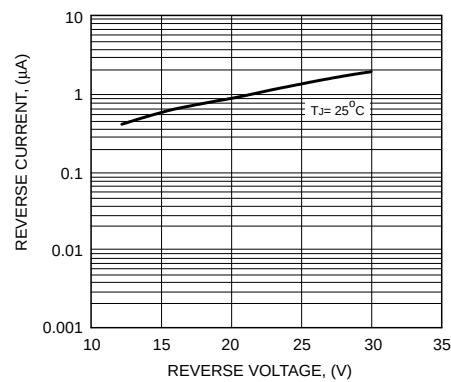


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

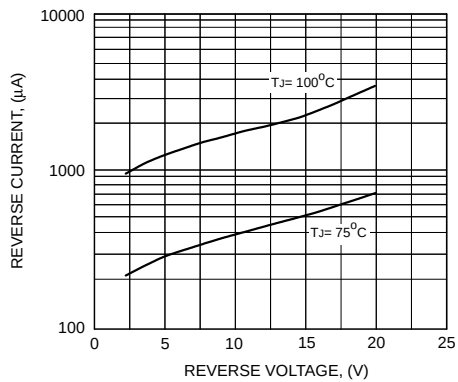


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

