



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BAS85

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 30 Volts

CURRENT - 0.2 Ampere

FEATURES

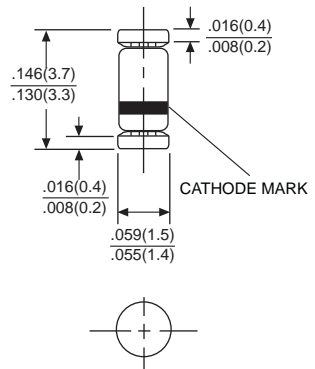
- * For general purpose applications
- * This diode features very low turn-on voltage and fast switching. This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge(ESD)
- * Double slug type construction

MECHANICAL DATA

- * Case: Glass sealed case Mini Melf(DL-35)
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.05 gram approx.



Mini Melf(DL-35)



Dimensions in inches and (millimeters)

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%.

	SYMBOL	BAS85	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	30	Volts
Maximum RMS Voltage	VRMS	21	Volts
Maximum DC Blocking Voltage	VDC	30	Volts
Maximum Average Forward Rectified Current at TA=25°C	IO	0.2	Amps
Peak Forward Surge Current at t=10mS	IFSM	0.6	Amps
Maximum Instantaneous Forward Voltage @ IF=0.1A	VF	0.8	Volts
Maximum DC Reverse Current @ VR=25V	IR	2.0	µAmps
Typical Thermal Resistance (Note 1)	RθJA	300	°C/W
Typical Junction Capacitance (Note 2)	CJ	10	pF
Storage Operating Temperature Range	TJ, TSTG	-55 to +125	°C

NOTE: 1. Terminals maintained at specified at ambient temperature.
 2. Measured at 1 MHz and applied reverse voltage of 1.0 volts.

RATING AND CHARACTERISTIC CURVES (BAS85)

FIG. 1
TYPICAL FORWARD CURRENT
DERATING CURVE

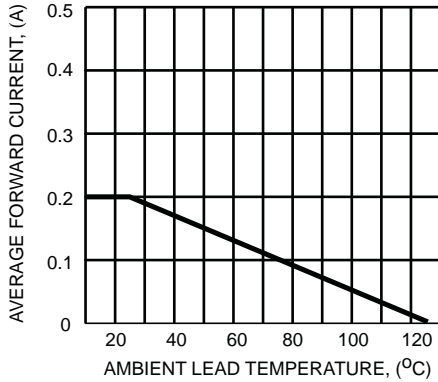


FIG. 2
TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

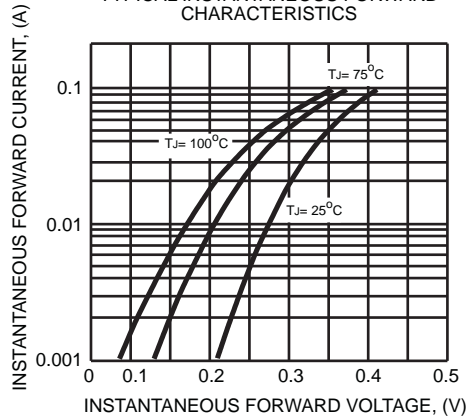


FIG. 3
TYPICAL REVERSE CHARACTERISTICS

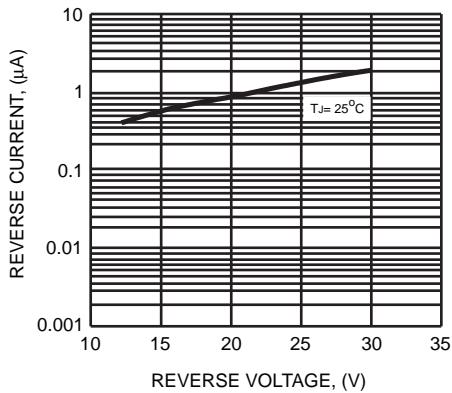


FIG. 4
TYPICAL REVERSE CHARACTERISTICS

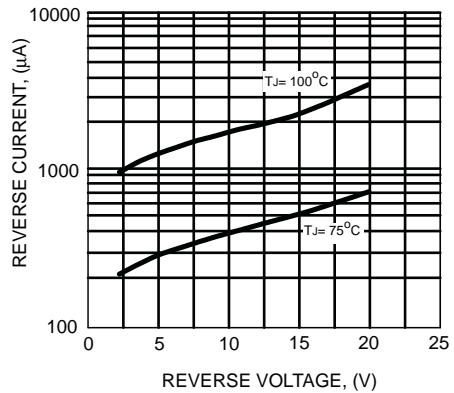
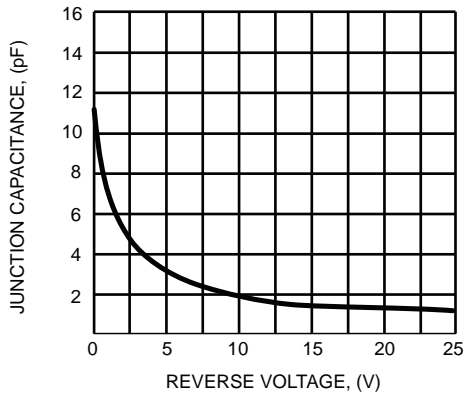


FIG. 5
TYPICAL JUNCTION CAPACITANCE



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