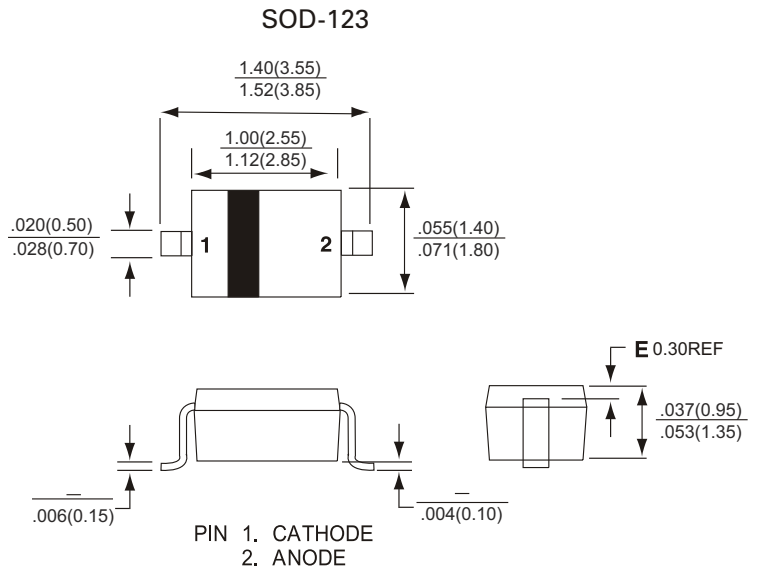
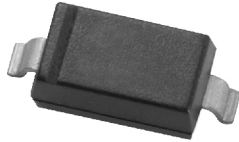


PB5817W thru PB5819W

1.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



FEATURES

- High current and surge capability
- Extreme low thermal Resistance
- For surface mount applications
- Low forward voltage drop
- High Temp soldering : 250°C/10 seconds at terminals

MECHANICAL DATA

Case : Molded plastic
 Epoxy : UL 94V-0 rate flame retardant
 Lead : Au leads, solderable per MIL-STD-202,
 Method 208 guaranteed
 Polarity : Color band denotes cathode end
 Mounting position : Any

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%

	PB5817W	PB5818W	PB5819W	UNITS
Maximum Repetitive Peak Reverse Voltage	20	30	40	Volts
Maximum RMS Voltage	14	21	28	Volts
Maximum DC Blocking Voltage	20	30	40	Volts
Maximum Average Forward Rectified Current at T _L (see Fig 1)	1.0			Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	40			Amps
Maximum Instantaneous Forward Voltage at 1.0A	0.45	0.55	0.6	Volts
Maximum DC Reverse Current T _A =25°C at Rated DC Blocking Voltage T _A =100°C	1.0 10			mA
Typical Junction Capacitance (Note 1)	110			pF
Typical Thermal Resistance R _{JA} (NOTE 2)	426			°C / W
Operating Temperature Range T _J	-40 to +125			°C
Storage Temperature Range T _{STG}	-40 to +135			°C

NOTES :

1. Measured at 1.0MHz and applied reverse voltage of 5.0 volts
2. Thermal Resistance Junction to Case.

PB5817W thru PB5819W

1.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

RATING AND CHARACTERISTICS CURVES PB5817W THRU PB5819W

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

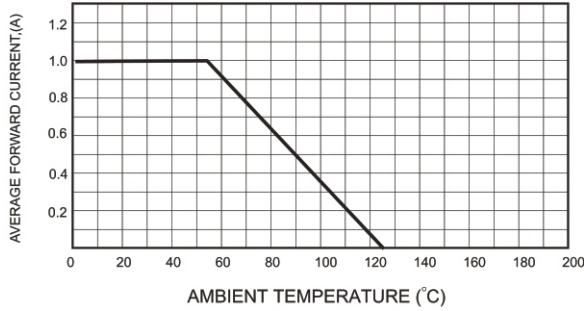


FIG.2-TYPICAL FORWARD CHARACTERISTICS

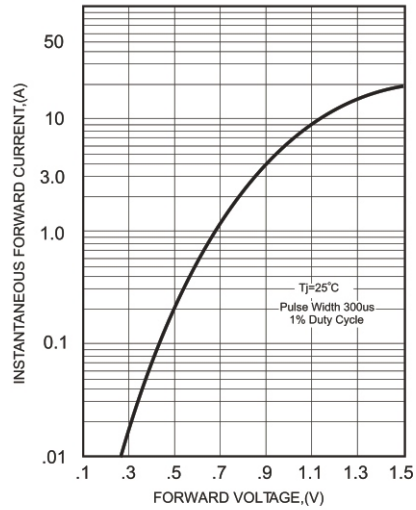


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

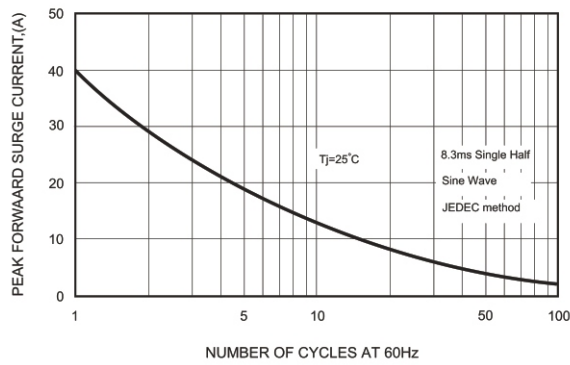


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

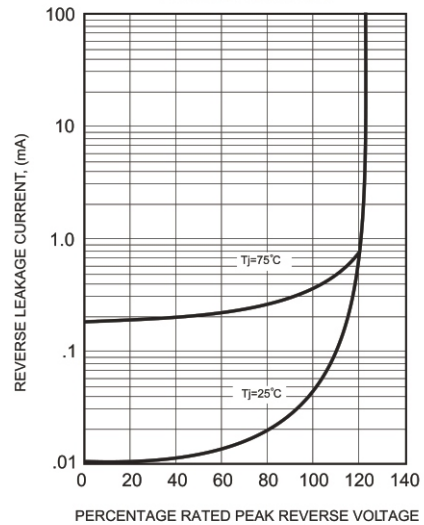


FIG.4-TYPICAL JUNCTION CAPACITANCE

