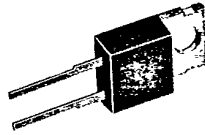


T-03-17

SBS8-T SERIES

HIGH CURRENT SCHOTTKY RECTIFIER

GENERAL INSTRUMENT



FEATURES

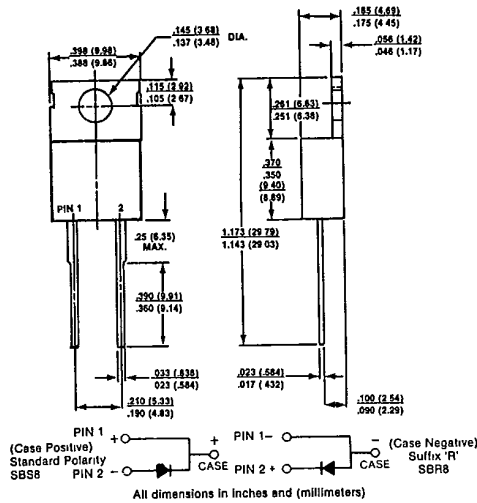
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal of silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low V_f
- High surge capacity
- Epitaxial construction
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- High temperature soldering guaranteed: 250°C/10 seconds/.25", (6.35mm) from case

MECHANICAL DATA

Case: TO-220 molded plastic
 Terminals: Lead solderable per MIL-STD-202.
 Method 208
 Polarity: As marked
 Mounting position: Any
 Weight: .08 ounces, 2.24 grams

VOLTAGE RANGE
20 to 60 Volts

CURRENT
8.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Resistive or inductive load.
 For capacitive load, derate current by 20%.

	SBS820T	SBS830T	SBS835T	SBS840T	SBS845T	SBS850T	SBS860T	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	35	40	45	50	60	V_{RRM}
Maximum RMS Voltage	14	21	24.5	28	31.5	35	42	V_{RMS}
Maximum DC Blocking Voltage	20	30	35	40	45	50	60	V_{DC}
Maximum Average Forward Rectified Current See Fig. 1	8.0							$A_{(AV)}$
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	150							A_{pk}
Maximum Instantaneous Forward Voltage $I_f = 8.0A, T_c = 125^\circ C$ (Note 3) $I_f = 8.0A, T_c = 25^\circ C$.55 .65			.65 .75				V_{pk}
Maximum Average Reverse Current at $T_c = 25^\circ C$ Rated DC Blocking Voltage per element $T_c = 100^\circ C$	1.0 50.0							mA mA
Typical Thermal Resistance $R_{\theta JC}$ (Note 1)	3.0							$^\circ C/W$
Typical Junction Capacitance (Note 2)	700					460		pF
Operating and Storage Temperature Range T_j	-65 to +125					-65 to +150		$^\circ C$
Storage Temperature Range T_{sta}	-65 to +150							$^\circ C$

NOTES:
 1. Thermal Resistance Junction to CASE.
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts
 3. 300 μs Pulse Width, 2% Duty Factor.

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.