SBYD17D

SINTERED GLASS JUNCTION SURFACE MOUNTED RECTIFIER

VOLTAGE: 200V CURRENT: 1.0A



FEATURE

For surface mounted application
High temperature metallurgic ally bonded
Sintered glass junction
Capability of meeting environmental stand

Capability of meeting environmental standard of MIL-S-19500 High temperature soldering guaranteed

High temperature soldering guaranteed 450 °C/10sec/at terminal / complete device Submersible temperature of 265 °C for 10sec

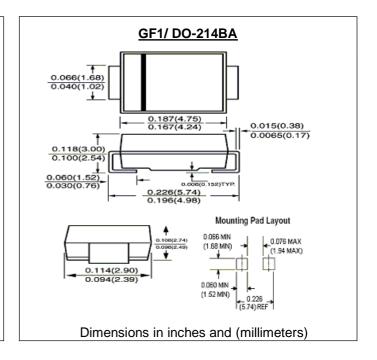
MECHANICAL DATA

Terminal: Plated Terminal, solderable per MIL-STD 202, method 208C

Case: Molded with UL-94 class V-0 recognized

Flame Retardant Epoxy over Glass Polarity: color band denotes cathode end

Mark: D17D



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated, for capacitive load, derate current by 20%)

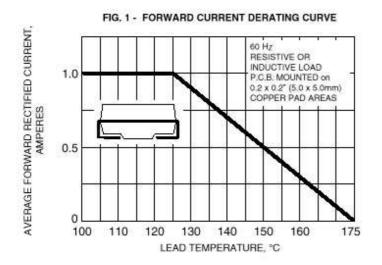
	SYMBOL	SBYD17D	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Reverse avalanche breakdown voltage at IR = 0.1 mA	$V_{(BR)R}$	225min	V
Maximum Average Forward Rectified Current	If(av)	1.0	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30.0	А
Maximum Forward Voltage at rated Forward current Ta =25 ℃	Vf	1.05	V
Maximum DC Reverse CurrentTa =25 $^{\circ}$ Cat rated DC blocking voltageTa =150 $^{\circ}$ C	lr	1.0 50.0	μA
Non-Repetitive Peak Reverse Avalanche Energy (Note 1)	Ersm	7.0	mJ
Typical Junction Capacitance (Note 2)	Cj	15.0	pF
Typical Thermal Resistance (Note 3)	Rth(ja)	80.0	°C/W
Operating and Storage Temperature Range	Tst, Tj	-65 to +175	$^{\circ}$

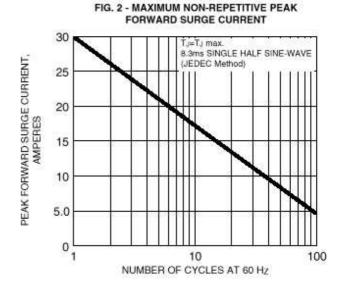
Note:

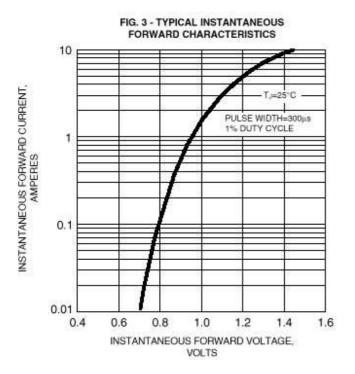
- 1. L=120mH; Tj=Tjmax prior to surge; inductive load switched off
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient 6.0mm² copper pad to each terminal

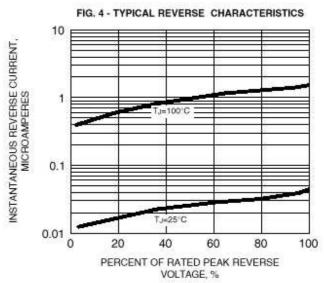
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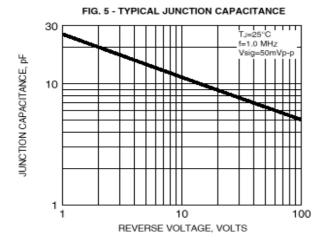
RATINGS AND CHARACTERISTIC CURVES SBYD17D

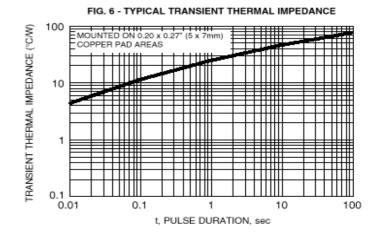












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