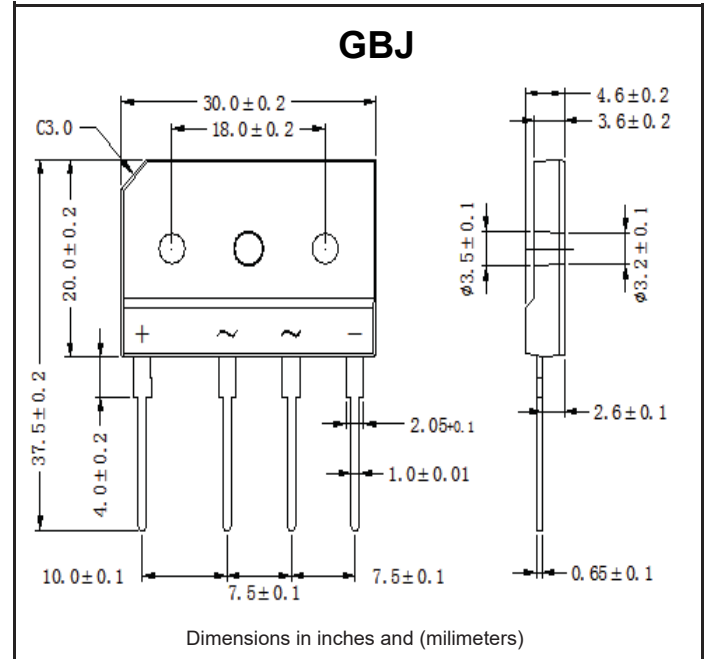


SILICON BRIDGE RECTIFIER
VOLTAGE RANGE: 1200 V
CURRENT: 25.0 A
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0
- Weight: 0.24 ounces, 6.79grams

MECHANICAL DATA

- Polarity: Symbols molded on body
- Weight: 0.23 ounces, 6.6 grams
- Mounting position: Any


MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

CHARACTERISTICS	SYMBOL	GBJ 2512	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1200	V
Maximum RMS Voltage	V _{RMS}	840	V
Maximum DC Blocking Voltage	V _{DC}	1200	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T _C =100°C (without heatsink)	I _(AV)	25.0 3.5	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	350	A
Maximum Forward Voltage at 12.5A DC	V _F	1.1	V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	10 500	uA
Typical Thermal Resistance (Note2)	R _{θJC}	1.0	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 2. Device mounted on 300mm*300mm*1.6mm cu plate heatsink.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

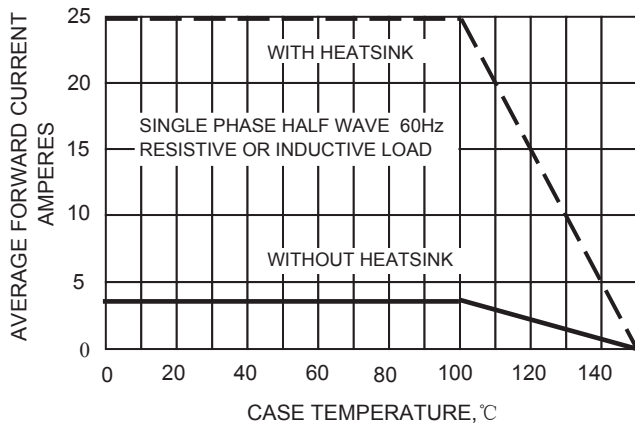


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

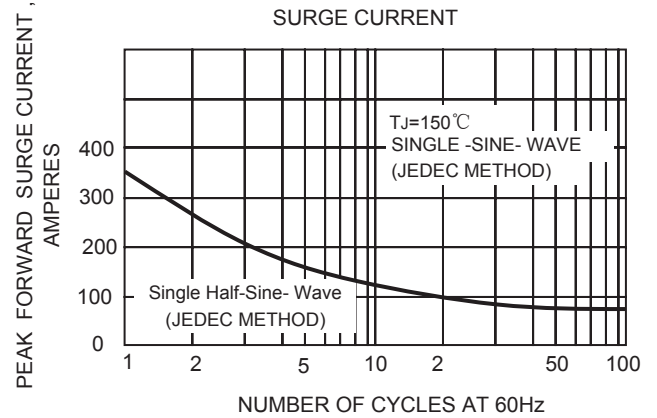


FIG.3-TYPICAL JUNCTION CAPACITANCE

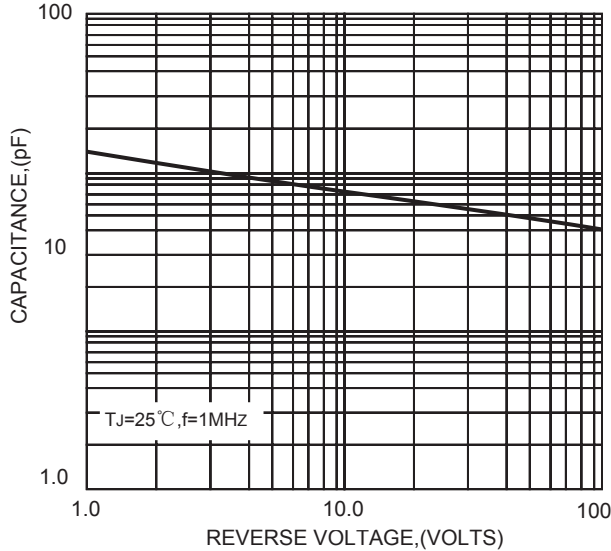


FIG.4-TYPICAL FORWARD CHARACTERISTICS

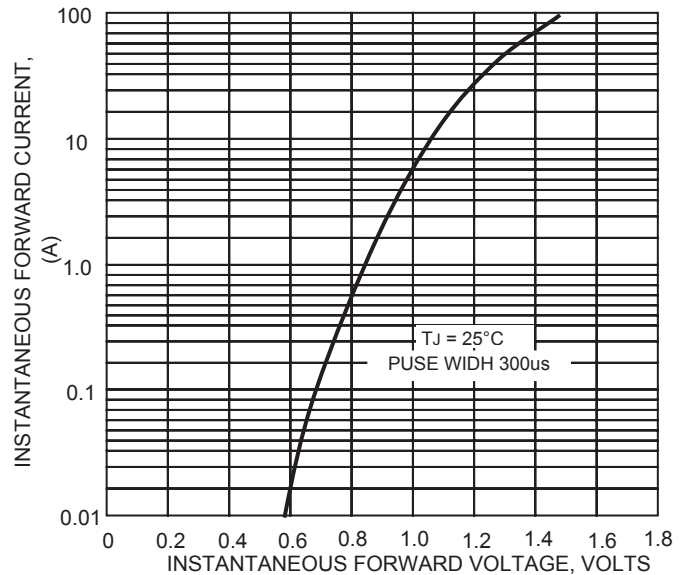


FIG.5-TYPICAL REVERSE

