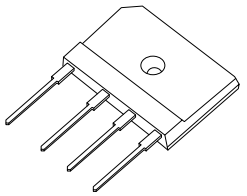
GBJ1506

SCHOTTKY BRIDGE

GLASS PASSIVATED BRIDGE RECTIFIERS

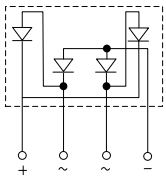


GBJ

■ FEATURES

* Rating to 1000V PRV
* High surge current capability
* Reliable low cost construction utilizing molded plastic technique

■ SYMBOL

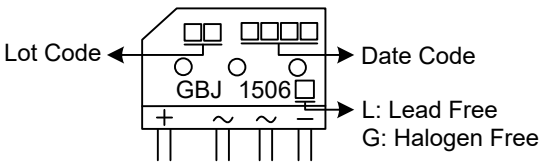


■ ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
GBJ1506L-GBJ-T	GBJ1506G-GBJ-T	GBJ	Tube

GBJ1506G-GBJ-T (1)Packing Type (2)Package Type (3)Green Package	 (1) T: Tube (2) GBJ: GBJ (3) G: Halogen Free and Lead Free, L: Lead Free

■ MARKING



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	600	V
RMS Voltage	V_{RMS}	420	V
Continuous Reverse Voltage	V_R	600	V
Average Forward Rectified Current (T_A=90°C)	$I_{F(AV)}$	15	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	240	A
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I^2t	200	A^2s
Operating Junction Temperature Range	T_J	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL DATA

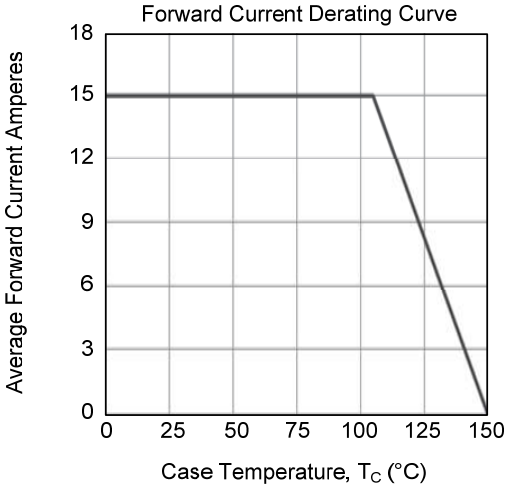
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	12	°C/W
Junction to Case	θ_{JC}	1.5	°C/W

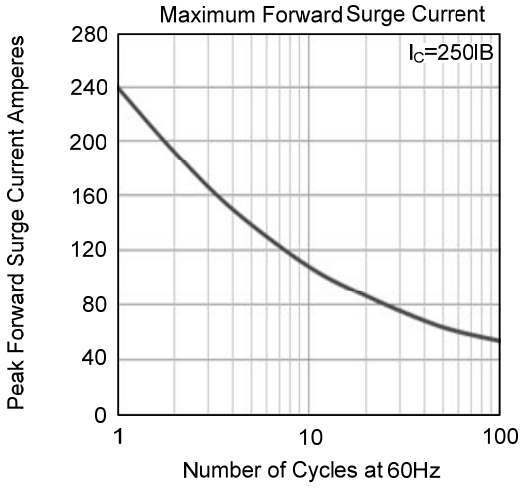
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

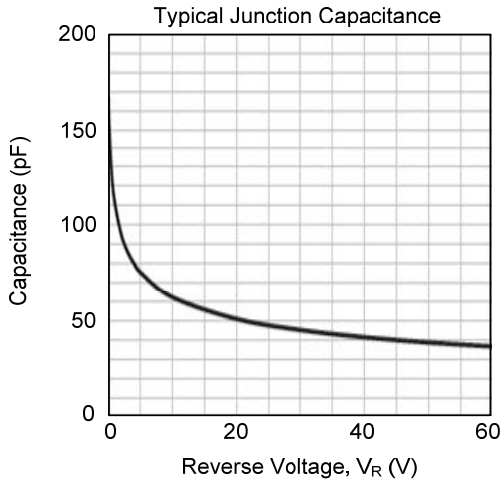
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage at 7.5 A DC	V_F	I_F=7.5A			1.0	V
		I_F=15A			1.1	V
Peak Reverse Current At Rated DC Blocking Voltage	I_R	T_J=25°C			5	μA
		T_J=125°C			500	μA
DC Reverse Current at Rated DC Blocking Voltage	I_{RRM}	V_{RM}=V_{RRM}			5.0	μA
Junction Capacitance	C_J			79		pF

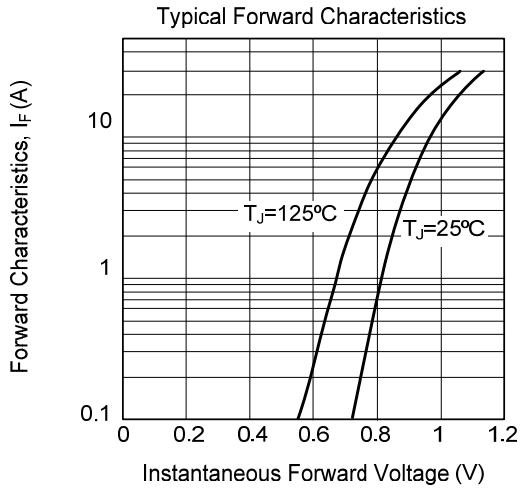
Notes: 1. Unit case mounted on aluminum piate heatsink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

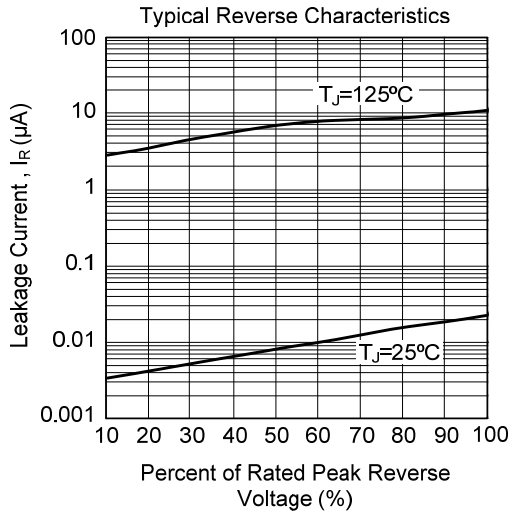
■ TYPICAL CHARACTERISTICS











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