



GBJ1506

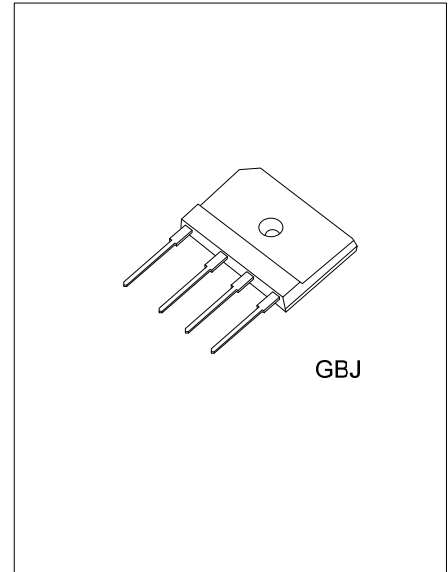
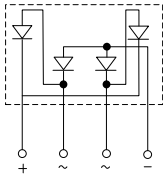
SCHOTTKY BRIDGE

15A SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

■ FEATURES

* High surge current capability

■ SYMBOL

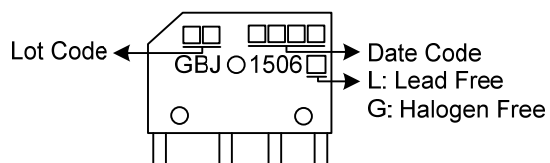


■ ORDERING INFORMATION

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

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

■ MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Forward Rectified Current ($T_A=90^{\circ}\text{C}$)	$I_{F(AV)}$	15	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	240	A
Current squared time @ $1\text{ms} \leq t \leq 8.3\text{ms}$ $T_J=25^{\circ}\text{C}$, Rating of per diode	I^2t	239.04	A^2s
Dielectric strength @ terminals to case, AC 1 minute	V_{DIS}	2.5	KV
The proposed installation torque Max torque	T_{OR}	5 8	kg·cm
Operating Junction Temperature Range	T_J	-55 ~ +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

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	$^{\circ}\text{C/W}$
Junction to Case	θ_{JC}	1.5	$^{\circ}\text{C/W}$

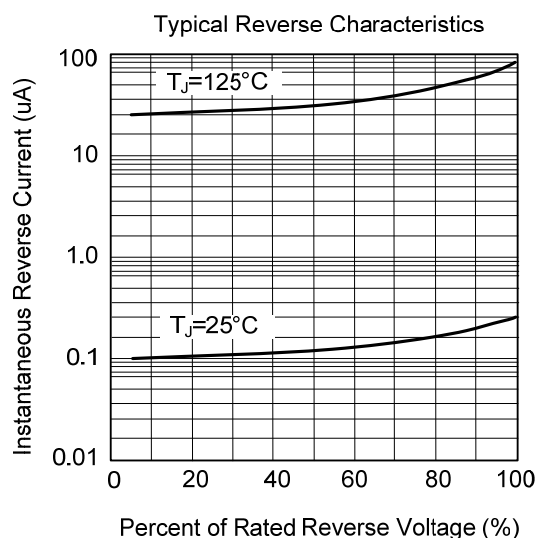
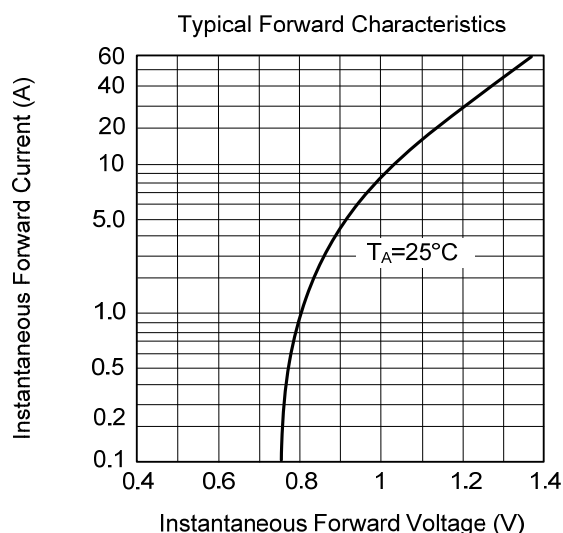
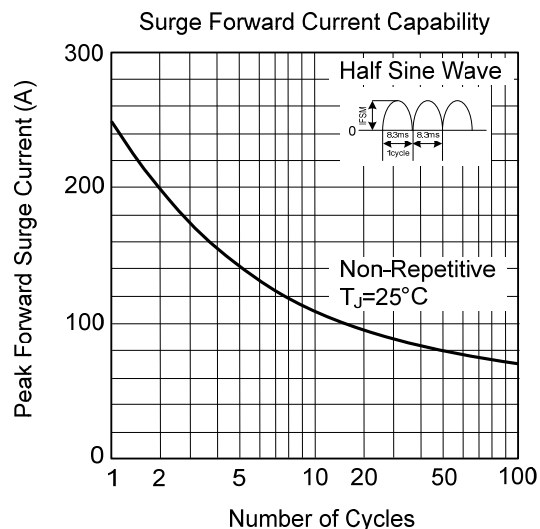
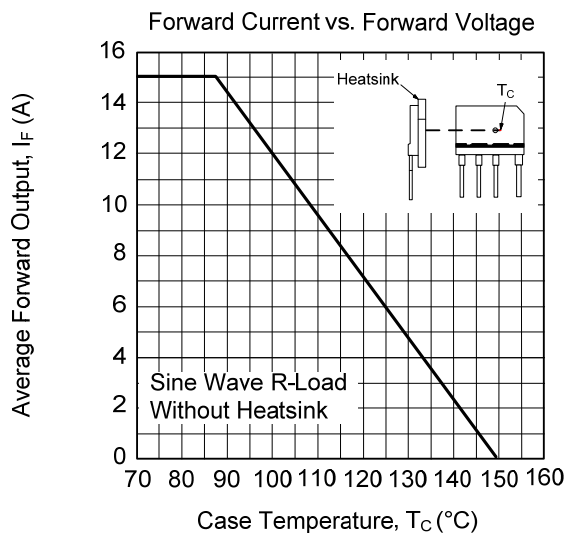
■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_F	$I_F=7.5\text{A}$			1.0	V
		$I_F=15\text{A}$			1.1	V
Peak Reverse Current At Rated DC Blocking Voltage	I_R	$T_J=25^{\circ}\text{C}$			5	μA
		$T_J=125^{\circ}\text{C}$			200	μA
DC Reverse Current at Rated DC Blocking Voltage	I_{RRM}	$V_{RM}=V_{RRM}$			5.0	μA
Dielectric Strength	V_{IDS}				2500	V
Junction Capacitance	C_J			65		pF

Notes: 1. Unit case mounted on aluminum plate heatsink.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

■ TYPICAL CHARACTERISTICS



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