

GSBPZ60L thru GSBPZ60Z

High Current Automobile Rectifiers
 Reverse Voltage 19V to 45V Forward Current 60A

Features

- Better heat dissipation
- Low power loss
- High reliability
- High surge forward current capability

Mechanical Data

- Case: Press-Fit
- Polarity: P=Anode on lead wire, N=Cathode on lead wire



Press-Fit

Maximum Ratings and Electrical Characteristics

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.)

Parameter	Symbol	GSBP Z60L-P	GSBP Z60M-P	GSBP Z60N-P	GSBP Z60H-P	GSBP Z60Z-P	Unit
		GSBP Z60L-N	GSBP Z60M-N	GSBP Z60N-N	GSBP Z60H-N	GSBP Z60Z-N	
Maximum Peak Repetitive Reverse Voltage @ $I_{rrm}=100mA$	V_{RRM}	19-24	24-27	27-34	34-40	40-45	V
Maximum RMS Voltage	V_{RMS}	16	20	22	30	35	V
Maximum DC Blocking Voltage	V_{DC}	16	20	22	30	35	V
Maximum Average Forward Current I_O @ $T_C=150^{\circ}C$ 60HZ, Resistive or Inductive Load	$I_{(AV)}$	60					A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	660					A
Maximum Instantaneous Forward Voltage Drop, I_F at 100A	V_F	1.00					V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_J=25^{\circ}C$					uA
		$T_J=195^{\circ}C$					
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	0.5					$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-40 to +200					$^{\circ}C$
Storage Temperature Range	T_{STG}	-40 to +200					$^{\circ}C$

Ratings and Characteristics Curves

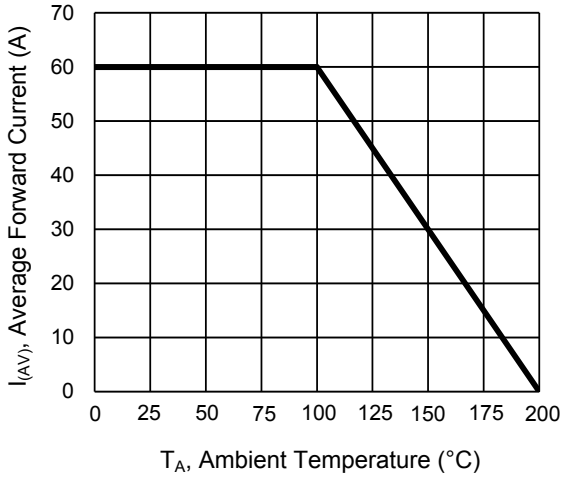


Figure 1. Forward Current Derating Curve

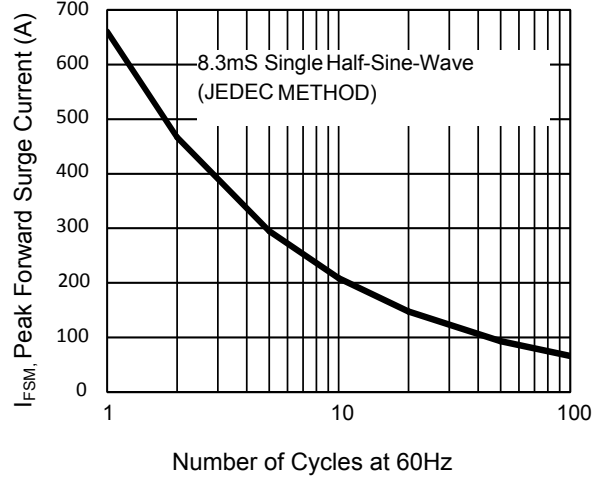


Figure 2. Maximum Non-Repetitive Surge Current

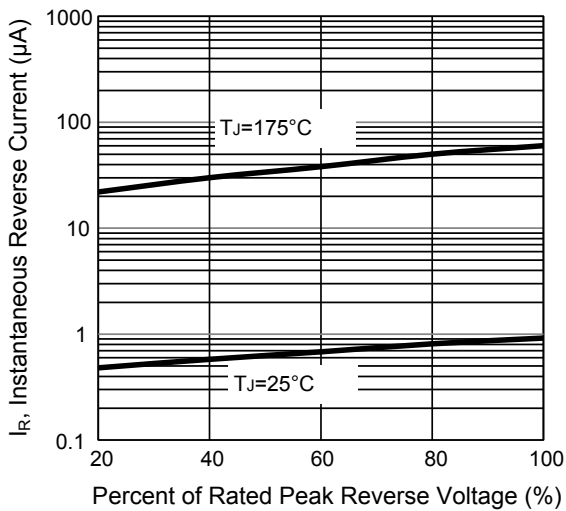


Figure 3. Typical Reverse Characteristics

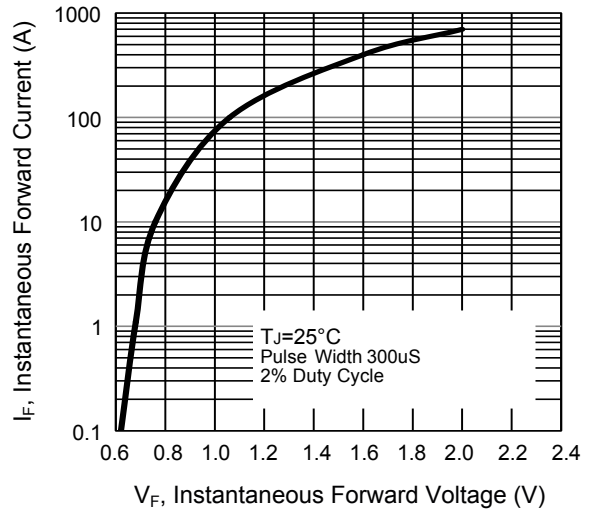
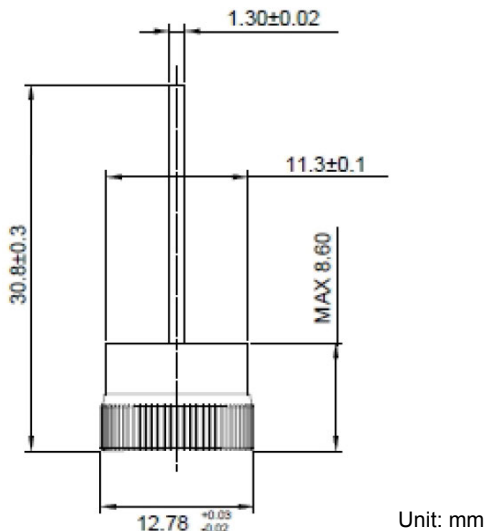


Figure 4. Typical Forward Characteristics

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Package Outline Dimensions (Press-Fit)



Order Information

Device	Package	Marking Code	Quantity
GSBPZ60L-P	Press-Fit	P60L	50pcs / Box
GSBPZ60L-N	Press-Fit	N60L	50pcs / Box
GSBPZ60M-P	Press-Fit	P60M	50pcs / Box
GSBPZ60M-N	Press-Fit	N60M	50pcs / Box
GSBPZ60N-P	Press-Fit	P60N	50pcs / Box
GSBPZ60N-N	Press-Fit	N60N	50pcs / Box
GSBPZ60H-P	Press-Fit	P60H	50pcs / Box
GSBPZ60H-N	Press-Fit	N60H	50pcs / Box
GSBPZ60Z-P	Press-Fit	P60Z	50pcs / Box
GSBPZ60Z-N	Press-Fit	N60Z	50pcs / Box