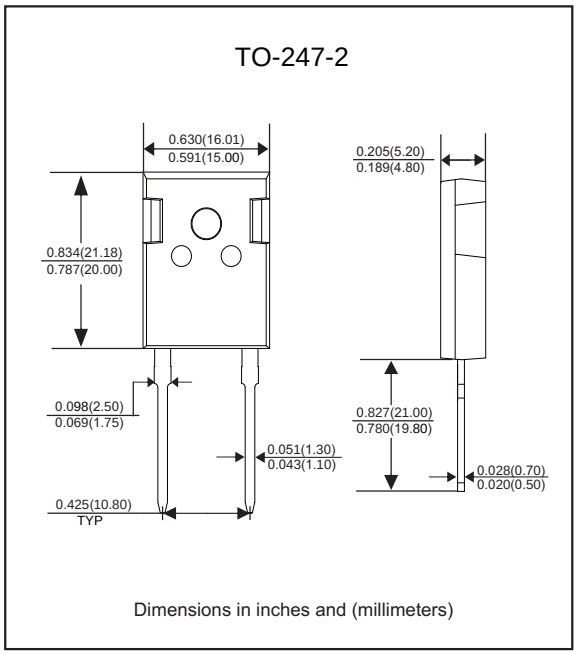
GS90160P

90A General Purpose Rectifier 1600V

Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power losses
- Glass passivated chip junction
- Suffix "H" indicates Halogen-free parts

Package outline



Mechanical data

- Case:TO-247-2
- Molding compound meets UL94 V-0 flammability rating
- Terminals:Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes cathode end

Maximum ratings (AT T_A=25℃ unless otherwise noted)

Parameter		Symbol	GS90160P	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	1600	V
Maximum RMS voltage		V_{RMS}	1120	V
Maximum DC blocking voltage		V_{DC}	1600	V
Average forward current at T_C=100℃		$I_{F(AV)}$	90	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	500	A
Maximum forward voltage @ I_F=90A		V_F	1.21	V
Maximum DC reverse current at rated DC blocking voltage	T_j=25℃	I_R	0.1	mA
	T_j=150℃		1	mA
Operating junction and storage temperature range		T_j,T_{stg}	-55 to +150	℃

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Rating and characteristic curves

Fig.1 Forward Current Derating Curve

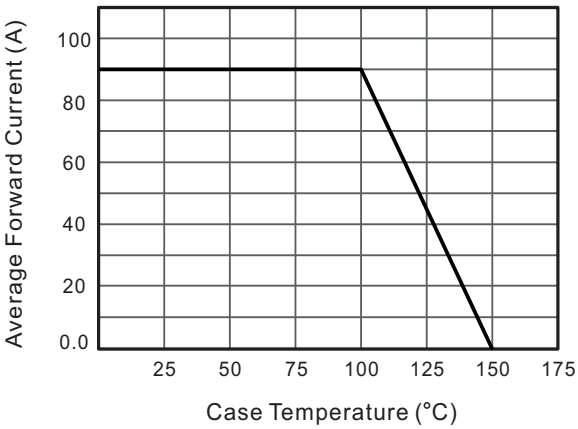


Fig.2 Typical Instaneous Reverse Characteristics

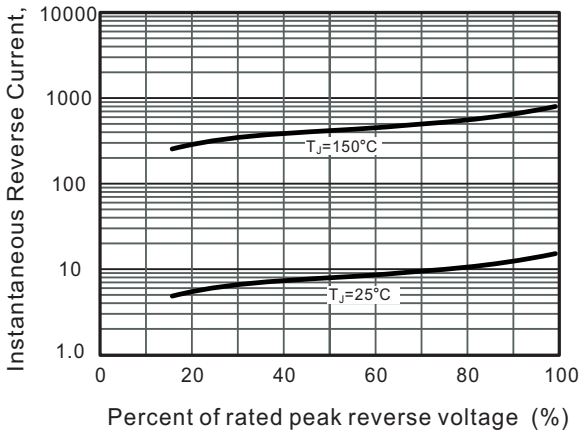


Fig.3 Typical Forward Characteristic

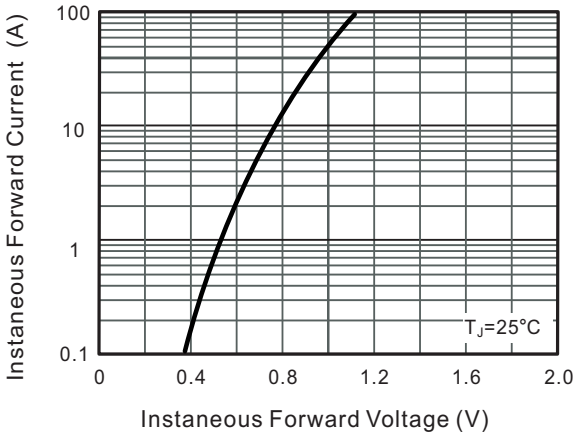
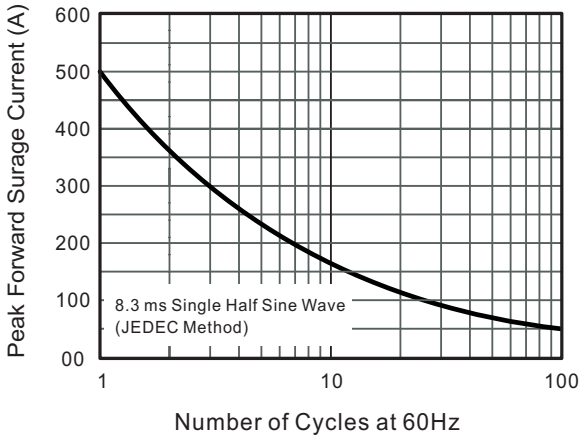
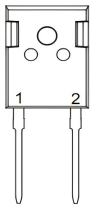
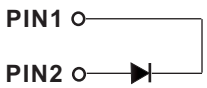


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
GS90160P	GS90160P