



GP1606A~GP1610A GENERAL PURPOSE RECTIFIER

preliminary

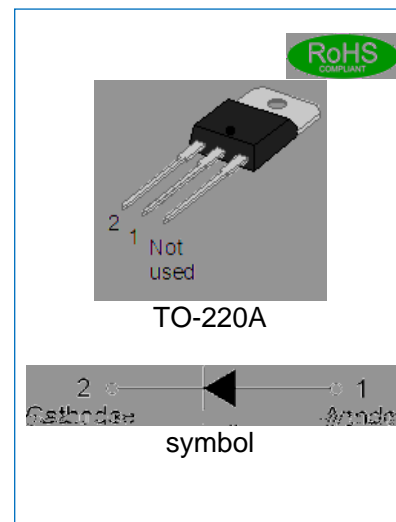
Rev.0.3

DESCRIPTION:

Plastic package has underwriters laboratories flammability classification 94V-0
 Glass passivated chip junction
 Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

Case: TO-220A, molded plastic over passivated junction
 Terminals: Solder plated, solderable per J-STD-002
 Internally constructed isolated package is offered for ease of heat sinking with highest isolation voltage
 Weight: 2.3gram



ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

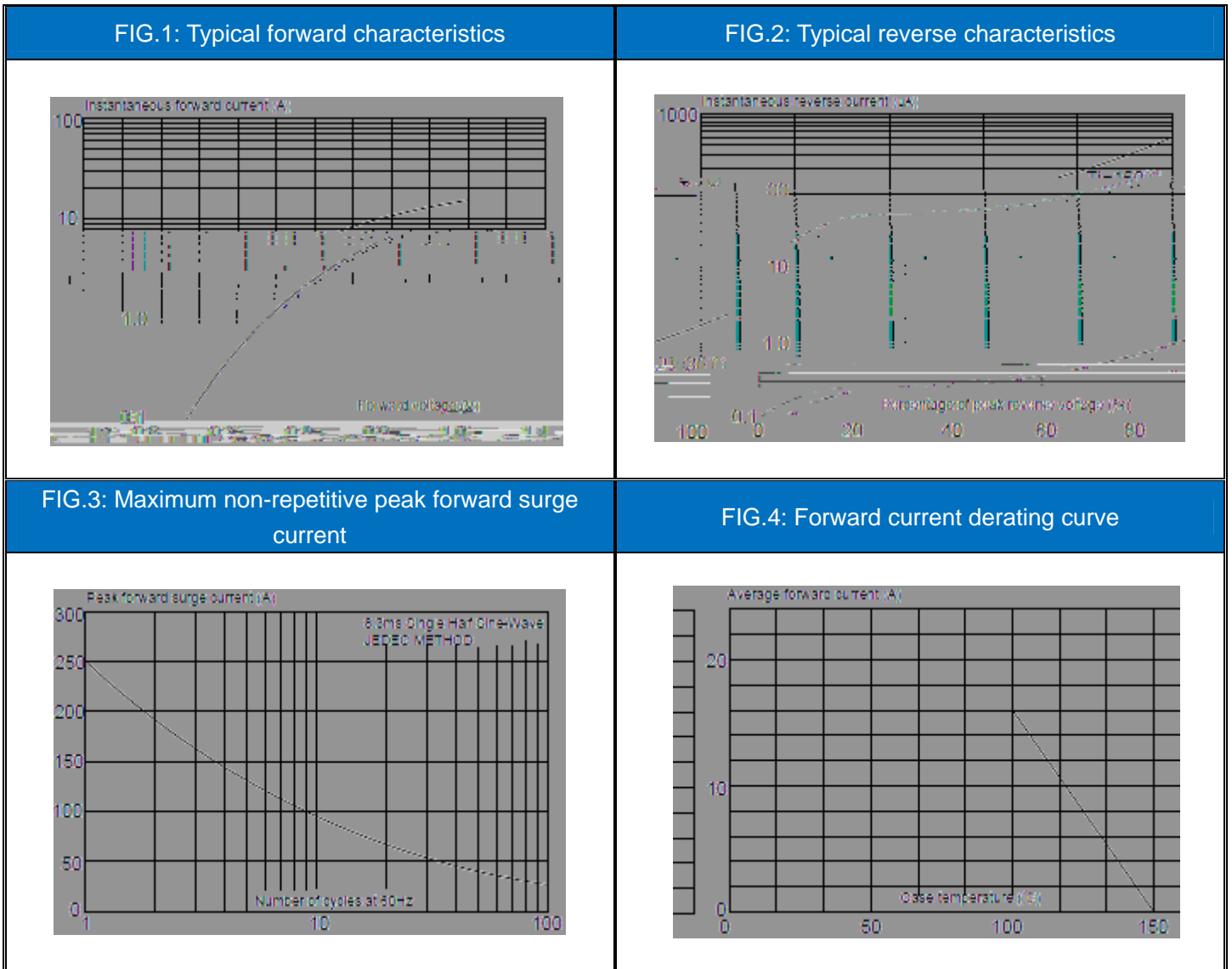
(Rating at 25 ambient temperature unless otherwise specified.)

Parameter	Symbol	GP1606A	GP1608A	GP1610A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	1000	V
Maximum RMS voltage	V_{RMS}	420	560	700	V
Maximum DC blocking voltage	V_{DC}	600	800	1000	V
Maximum average forward current at $T_C=100$	$I_{F(AV)}$	16			A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	250			A
Maximum forward voltage @ $I_F=16A$	V_F	1.2			V
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_j=25$	5		A
		$T_j=150$	1000		A
Typical junction capacitance $V_R=4.0V, f=1MHz$	C_J	130			pF
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150			

THERMAL RESISTANCES

Symbol	Parameter	GP1606A
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CHARACTERISTICS CURVE



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