



GP2506A~GP2510A GENERAL PURPOSE RECTIFIER

preliminary

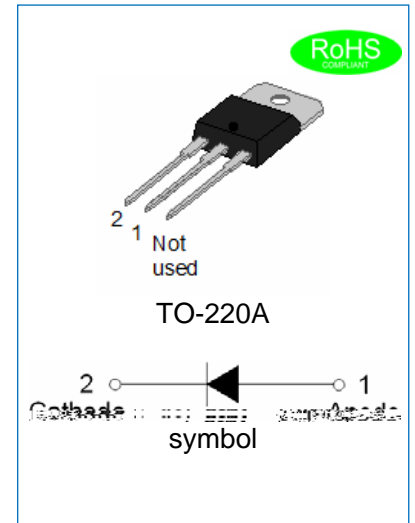
Rev.0.3

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 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	GP2506A	GP2508A	GP2510A	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 $T_C=100$	$I_{F(AV)}$	25			A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	350			A
Maximum forward voltage @ $I_F=25A$	V_F	1.2			V
Maximum DC reverse current $T_j=25$ at rated DC blocking voltage	I_R	5			A
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150			

THERMAL RESISTANCES

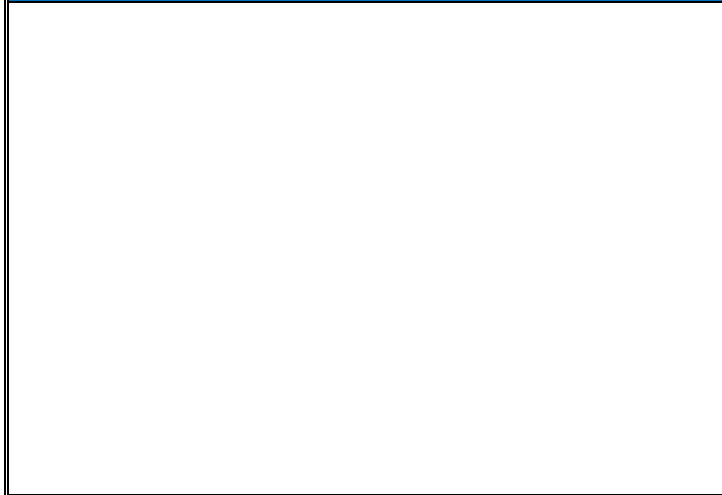
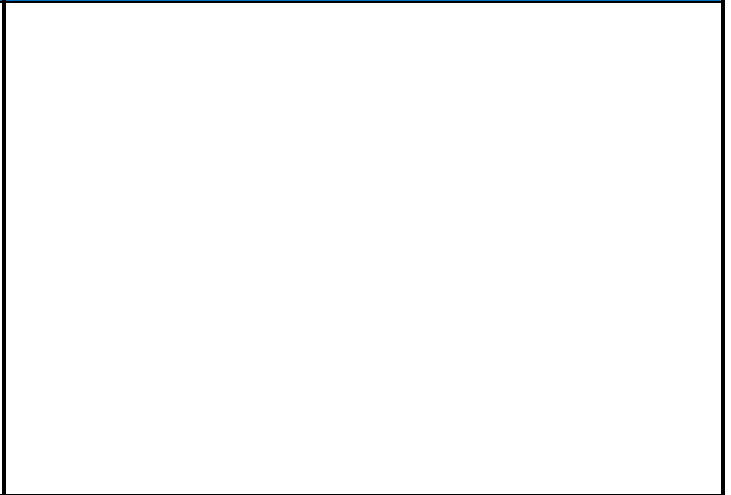


Symbol	Parameter	GP2506A	GP2508A	GP2510A	Unit
$R_{th(j-c)}$	Junction to case		4		/W

MARKING

PACKAGE MECHANICAL DATA



CHARACTERISTICS CURVE

<p>FIG.1: Typical forward characteristics</p>	<p>FIG.2: Typical reverse characteristics</p>
	
<p>FIG.3: Maximum non-repetitive peak forward surge current</p>	<p>FIG.4: Forward current derating curve</p>
	

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