

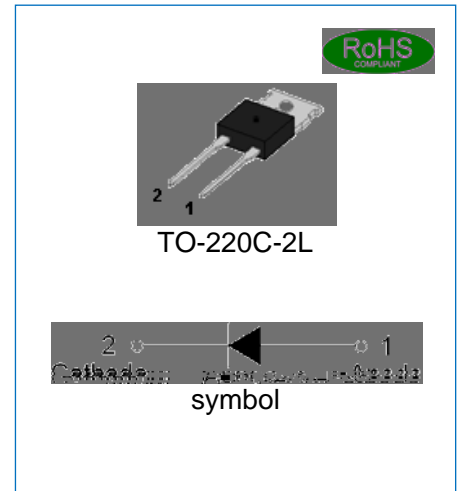


GP1606~GP1620 GENERAL PURPOSE RECTIFIER

Rev.2.5

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-220C-2L, molded plastic over passivated junction
- Terminals: Solder plated, solderable per J-STD-002
- Polarity: Pin 2 denotes cathode end
- Weight: 2.04 gram

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

(Rating at 25 ambient temperature unless otherwise specified.)

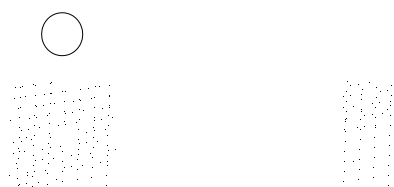
Parameter	Symbol	GP1606	GP1608	GP1610	GP1612	GP1616	GP1620	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	1000	1200	1600	2000	V	
Maximum RMS voltage	V_{RMS}	420	560	700	840	1120	1400	V	
Maximum DC blocking voltage	V_{DC}	600	800	1000	1200	1600	2000	V	
Maximum average forward current at $T_L=100$	$I_{F(AV)}$	16						A	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	250				160		A	
Maximum forward voltage @ $I_F=16A$	V_F	1.2						V	
Maximum DC reverse current at rated DC blocking voltage	$T_j=25$	I_R						5	A
	$T_j=150$							1	mA
Typical junction capacitance $V_R=4.0V, f=1MHz$	C_J	85						pF	
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							

THERMAL RESISTANCES

Symbol	Parameter	GP1606	GP1608	GP1610	GP1612	GP1616	GP1620	Unit
$R_{th(j-c)}$	Junction to case	4						/W

MARKING

PACKAGE MECHANICAL DATA



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