



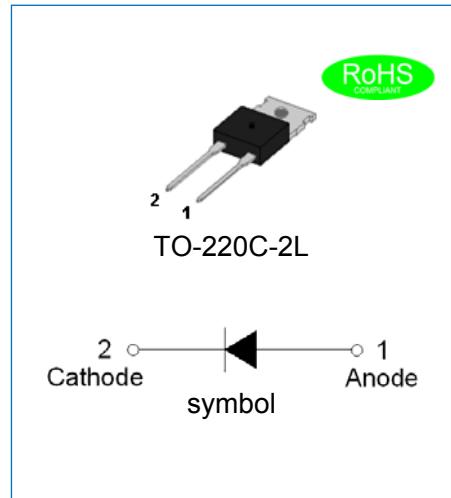
GP2506~GP2520

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

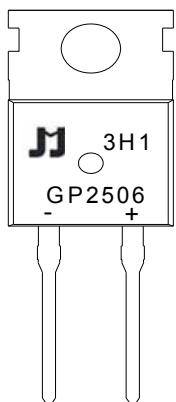
(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	GP2506	GP2508	GP2510	GP2512	GP2516	GP2520	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°C	I _{F(AV)}	25						A			
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	350			300			A			
Maximum forward voltage @I _F =25A	V _F	1.2						V			
Maximum DC reverse current at rated DC blocking voltage	T _j =25°C	I _R	5								
	T _j =150°C		1								
Typical junction capacitance V _R =4.0V, f=1MHz	C _J	130		90	110		pF				
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150						°C			

THERMAL RESISTANCES

Symbol	Parameter	GP2506	GP2508	GP2510	GP2512	GP2516	GP2520	Unit
$R_{th(j-c)}$	Junction to case					4		°C/W

MARKING



G	General Purpose Rectifier
P	Pin
25	$I_{F(AV)}=25A$
06	$V_{RRM}:600V$

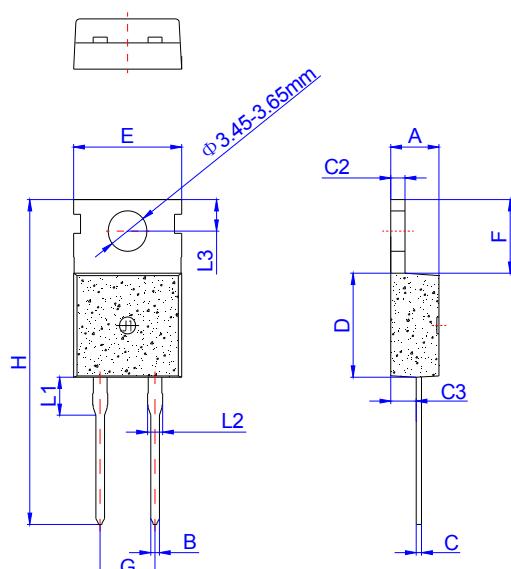
xH1: Month, 1、2、3 ~ 9、A、B、C

3x1:

2018	2019	2020	2021	2022	2023	2024
H	I	J	K	L	M	N
2025	2026	2027	2028	2029	2030	...
O	P	Q	R	S	T	...

3Hx: Batch number

PACKAGE MECHANICAL DATA



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.60	0.173		0.181
B	0.70		0.90	0.028		0.035
C	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
C3	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
E	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		5.08			0.200	
H	28.0		29.8	1.102		1.173
L1		3.39			0.133	
L2	1.14		1.70	0.045		0.067
L3	2.65		2.95	0.104		0.116
Φ		3.6			0.142	

PACKAGE INFORMATION-TO-220C-2L

OUTLINE	UNIT WEIGHT (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
TUBE	2.04	50	5,000

CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics

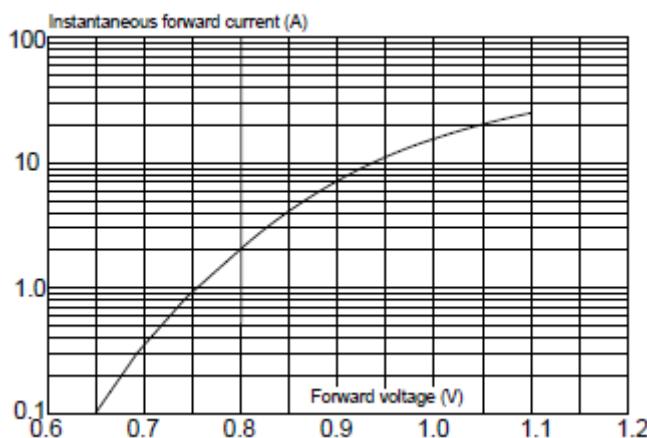


FIG.2: Typical reverse characteristics

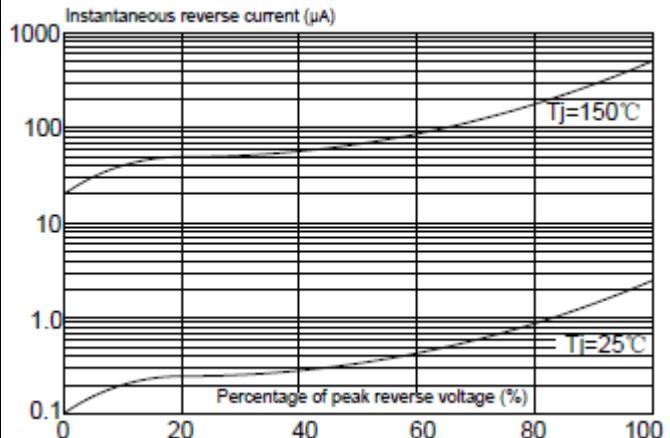


FIG.3: Maximum non-repetitive peak forward surge current

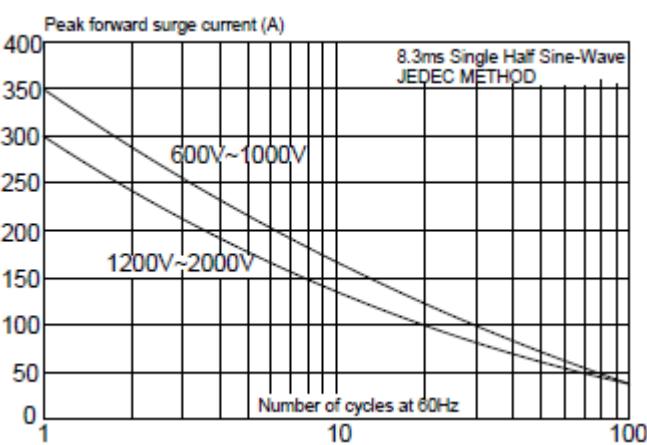
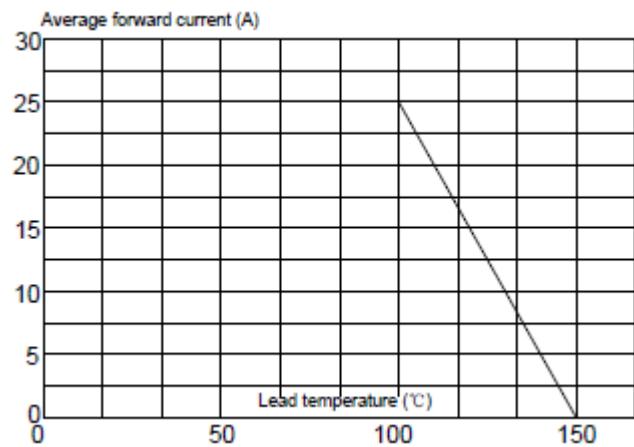


FIG.4: Forward current derating curve



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