



## GP1610R6 GENERAL PURPOSE RECTIFIER

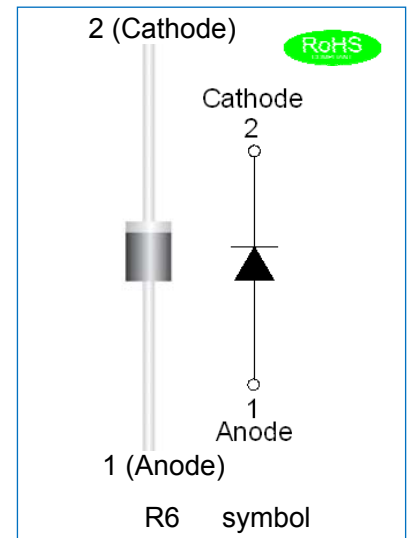
Rev.1.1

### 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
- ✧ Low forward voltage drop

### MECHANICAL DATA

- ✧ Case: R6, molded plastic over passivated junction
- ✧ Terminals: Solderable per MIL-STD-750, method 2026
- ✧ Weight: 2.2gram



### ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

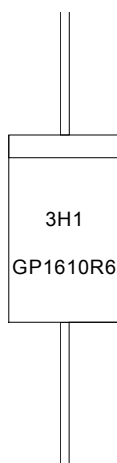
(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter		Symbol	GP1610R6	Unit
Maximum repetitive peak reverse voltage		$V_{RRM}$	1000	V
Maximum non-repetitive peak reverse voltage		$V_{RSM}$	1100	V
Maximum RMS voltage		$V_{RMS}$	700	V
Maximum DC blocking voltage		$V_{DC}$	1000	V
Maximum average forward current at $T_L=100^{\circ}\text{C}$		$I_{F(AV)}$	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 @ $I_F=16\text{A}$		$V_F$	1.2	V
Maximum DC reverse current at rated DC blocking voltage	$T_j=25^{\circ}\text{C}$	$I_R$	5	$\mu\text{A}$
	$T_j=150^{\circ}\text{C}$		1000	$\mu\text{A}$
Typical junction capacitance $V_R=4.0\text{V}$ , $f=1\text{MHz}$		$C_J$	85	pF
Operating junction and storage temperature range		$T_J, T_{STG}$	-60 to +150	$^{\circ}\text{C}$

## THERMAL RESISTANCES

Symbol	Parameter	GP1610R6	Unit
$R_{th(j-c)}$	Junction to case	4	°C/W

## MARKING



G	General Purpose Rectifier
P	Pin
16	$I_{F(AV)}=16A$
10	$V_{RRM}:1000V$
R6	Package:R6

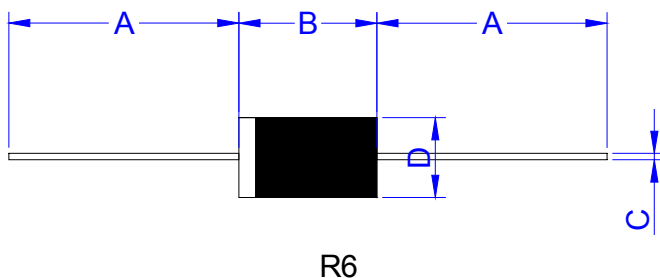
xH1: Month, 1、2、3 ~ 9、A、B、C

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



R6

Ref.	Dimensions			
	Inches		Millimeters	
	Min.	Max.	Min.	Max.
A	1.000	-	25.40	-
B	0.339	0.370	8.60	9.40
C	0.047	0.055	1.20	1.40
D	0.339	0.358	8.60	9.10

## PACKAGE INFORMATION-R6

OUTLINE	UNIT WEIGHT (g/PCS) typ.	INNER BOX (PCS)	PER CARTON (PCS)
Bulk	2.2	300	3,000

## CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics

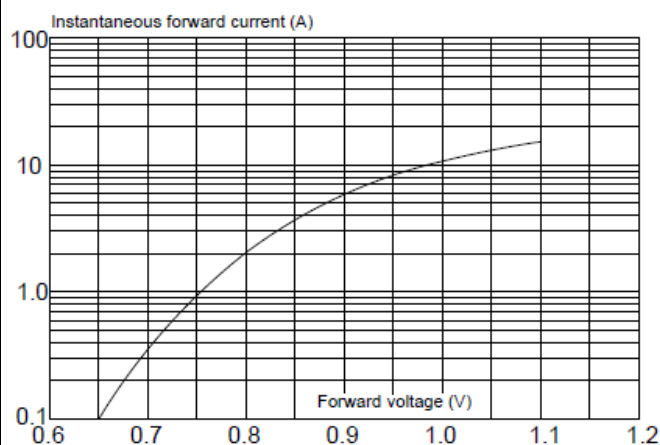


FIG.2: Typical reverse characteristics

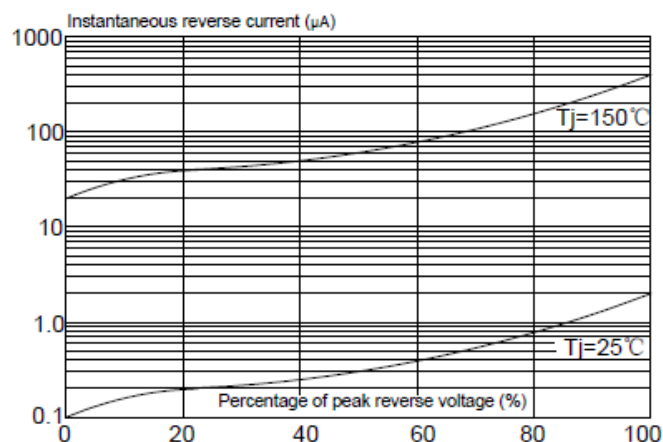


FIG.3: Maximum non-repetitive peak forward surge current

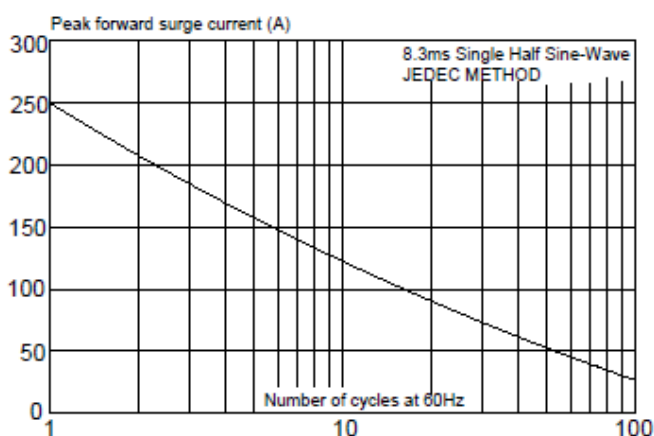
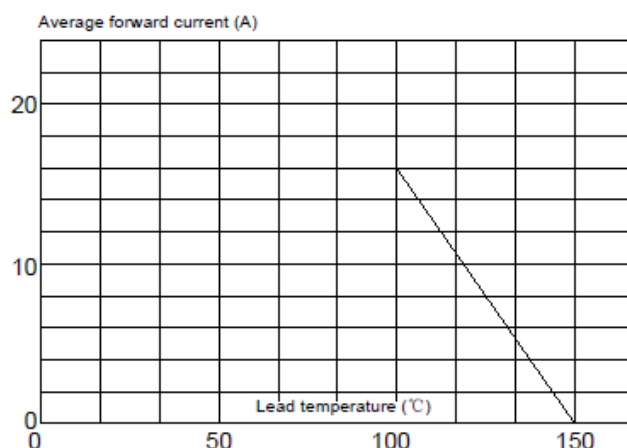


FIG.4: Forward current derating curve



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