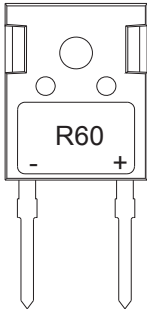
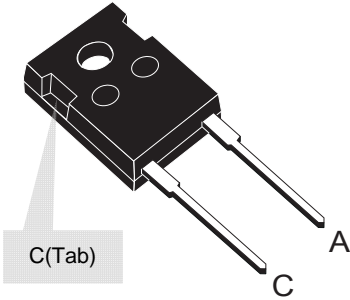
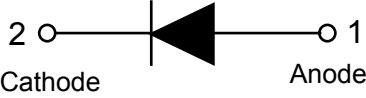




60A/1200V~1600V GENERAL PURPOSE RECTIFIER DIODE

<p>DESCRIPTION</p> <ul style="list-style-type: none"> ◆ Plastic package has underwriters laboratories -flammability classification 94V-0 ◆ Glass passivated chip junction ◆ Lead free in compliance with EU -RoHS 2011/65/EU directive 		<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ◆ Case: TO-247-2L, molded plastic -over passivated junction ◆ Terminals: Solder plated, solderable per J-STD-002 ◆ Polarity: Pin C denotes cathode end ◆ Weight: 5.682 g 	
Marking and pin Assignment	TO-247-2L top view	Symbol	
			

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	GP6012SL	GP6016SL	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	1200	1600	V
Maximum RMS Voltage	V_{RMS}	840	1120	
Maximum DC blocking voltage	V_{DC}	1200	1600	
Maximum forward voltage @ $I_F=60A$	V_F	1.2	1.2	
Maximum average forward current at $T_L=100^\circ C$	$I_{F(AV)}$	60	60	A
Peak forward surge current: 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	600	700	
Maximum DC reverse current at rated DC blocking voltage	$T_J=25^\circ C$	I_R	10	μA
	$T_J=150^\circ C$		1.5	mA
Typical junction capacitance $V_R=4.0V$, $f=1MHz$	C_J	250		pF
Operating junction and storage Temperature range	T_J, T_{stg}	-55 to +150		$^\circ C$

THERMAL RESISTANCES

Symbol	Parameter	GP6012SL	GP6016SL	Unit
$R_{th(j-c)}$	Junction to case	0.8		$^\circ C/W$



TO-247-2L PACKAGE MECHANICAL DATA

	RET.	Dimensions			
		Millimeters		Inches	
		Min.	Max.	Min.	Max.
	A	15.50	16.10	0.610	0.634
B	20.80	21.20	0.819	0.835	
C	19.70	20.30	0.776	0.799	
D	1.80	2.20	0.071	0.087	
E	1.90	2.30	0.075	0.091	
F	1.00	1.40	0.039	0.055	
G	10.88 TYP.		0.428 TYP.		
H	4.80	5.20	0.189	0.205	
J	1.50	2.10	0.075	0.083	
K	2.20	2.50	0.087	0.098	
L	0.41	0.79	0.016	0.031	

TO-247-2L PACKAGE INFORMATION

Device model	Marking	OUTLINE	Device Package	Net Weight (g/Pcs)	TUBE (Pcs)	BOX (Pcs)	Per Carton (Pcs)
HRD60A16SL	R60	TUBE	TO-247-2L	5.682	30	450	2250



CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics

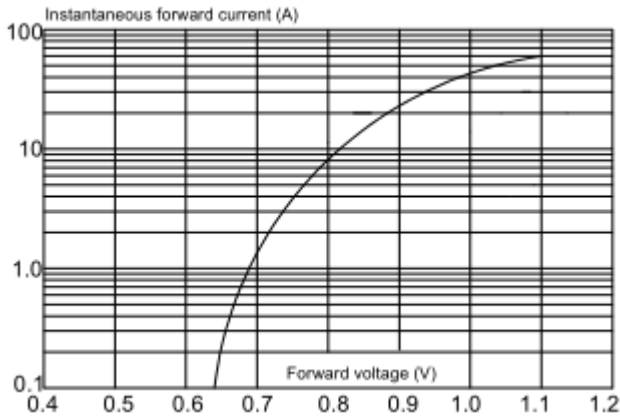


FIG.2: Typical reverse characteristics

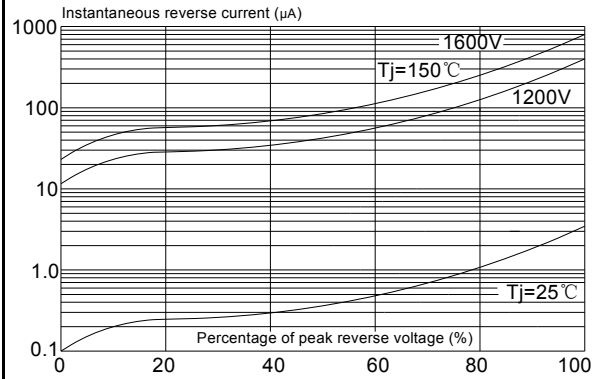


FIG.3: Maximum non-repetitive peak forward surge current

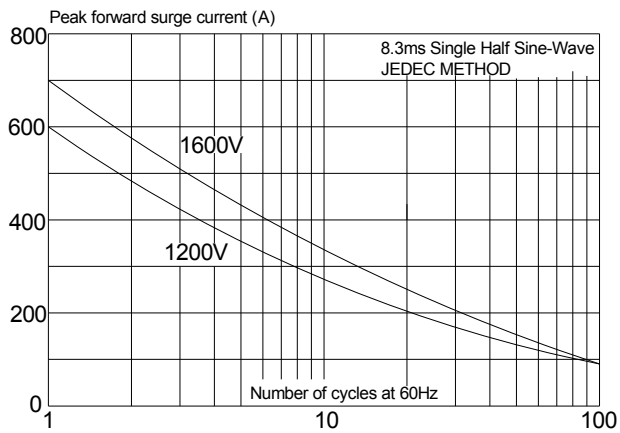
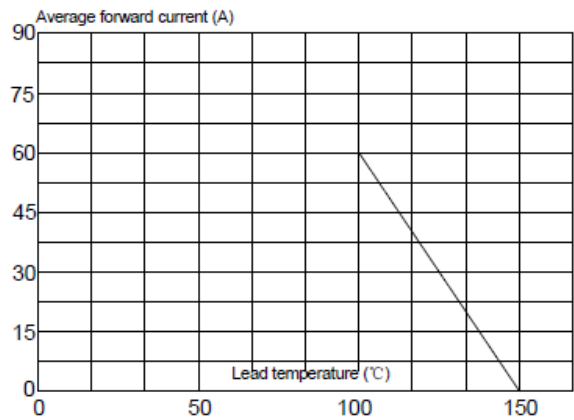


FIG.4: Forward current derating curve





Manufacturers version information

2020-11-12, HAOHAI™ Product Data-1.0



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深圳市浩海电子有限公司

SHENZHEN HAOHAI ELECTRONICS CO., LTD.

2 floor(whole floor), BAOXIN Building. 0 Lane on the 8th. Yufeng Garden.
82 District. BAOAN District, Shenzhen City, Guangdong Province, China.

TEL: +86-755-29955080、29955081、29955082、29955083

FAX: +86-755-27801767

E-mail: kkg@kkg.com.cn

<http://www.szhhe.com>

<http://www.kkg.com.cn>