

6A,50-1000V Standard Rectifiers

Features

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- For general purpose applications
- Moisture sensitivity: level 1, per J-STD-020
- For fast switching and low logic level applications
- High temperature soldering guaranteed: 260°C/10 seconds



R-6/P600

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)									
Parameter	Symbol	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	Unit
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	IF(AV)	6						А	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM	400					A		
Operating junction temperature range	TJ	-55 to +150					°C		
Storage temperature range	T _{STG}	-55 to +150					°C		

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)								
Parameter	Symbol	Тур	Unit					
Thermal Resistance, Junction to Ambient	Reja	61	°C /W					
Thermal Resistance, Junction to Case	R _{θJC}	13	°C /W					
Thermal Resistance, Junction to Lead	R _{θJL}	12	°C /W					



6A05G thru 6A10G GOOD-ARK Electronics

Electrical Specifications (TA=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	Unit
Forward Drop Voltage	VF	I⊧=6A	1.10		1.00					v
Reverse leakage current @V _R I _R		TJ =25℃	10							uA
	IR	T」=125℃	200							
Typical junction capacitance	CJ	4.0 V 1 MHZ	100					pF		
Typical reverse recovery time	trr	I _F =0.5A,								
		I _R =1.0A,	1						uS	
		I _{RR} =0.25A								

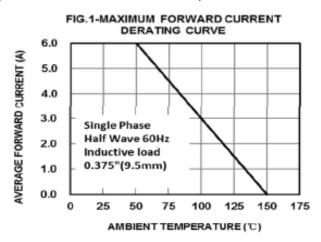
Note:

1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



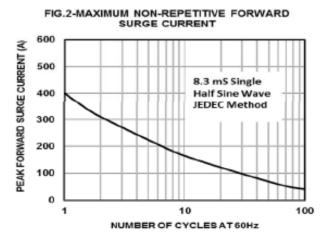


FIG.3-Typ JUNCTION CAPACITANCE

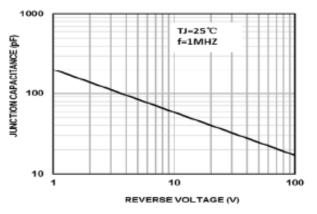


FIG 5 - Typ REVERSE CHARACTERISTICS

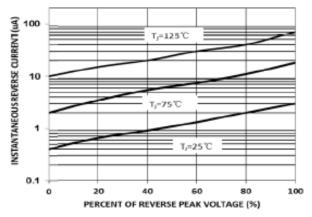
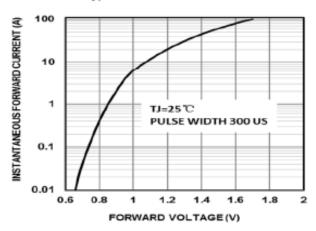


FIG.4-Typ FORWARD CHARACTERISTICS

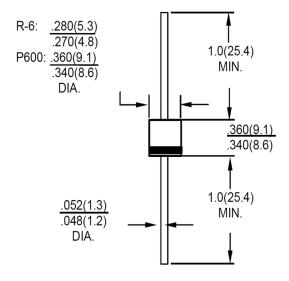




Package Outline Dimensions

in inches (millimeters)

R-6/P600



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	Description of changes				
Rev.A	2021.06.01	Released Datasheet				
Rev.B	2023.11.27	Modify document format				



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