

GOOD-ARK Electronics

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	P600A	P600B	P600C	P600D	P600J	P600K	P600M	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 +135				°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	38	°C /W				
Thermal Resistance, Junction to Case	R _{θJC}	19	°C /W				
Thermal Resistance, Junction to Lead	R _{eJL}	16	°C /W				



P600A thru P600M GOOD-ARK Electronics

Electrical Specifications (TA=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	P600A	P600B	P600C	P600D	P600J	P600K	P600M	Unit
Forward Drop Voltage	VF	I⊧=6A	0.9 1.0				1.0	V		
Reverse leakage		TJ =25℃	5						uA	
current @V _R		T」=125℃	200						uA	
Typical junction capacitance	CJ	4.0 V 1 MHZ	150					pF		

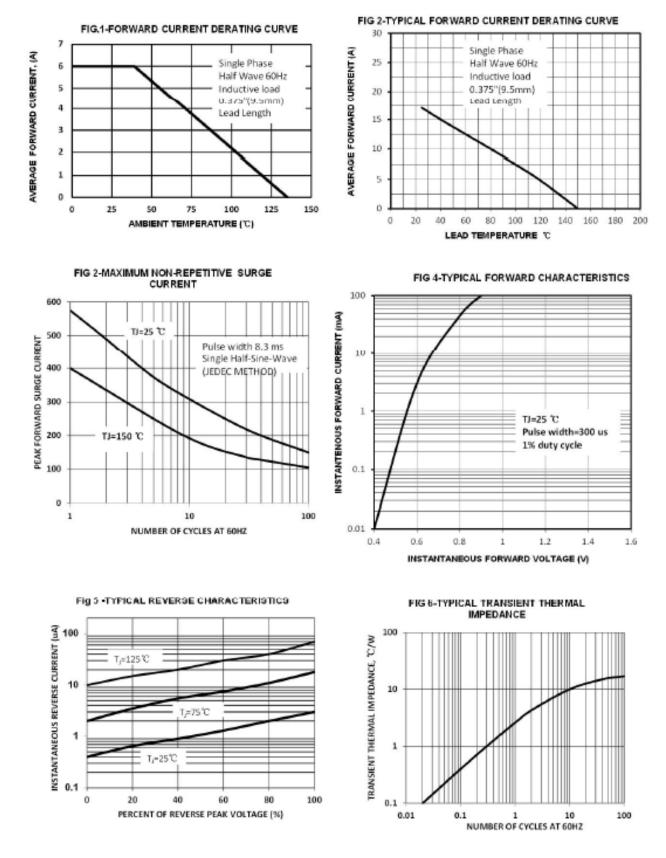
Note:

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)



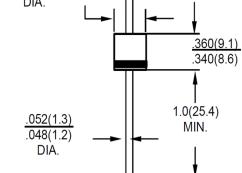


Package Outline Dimensions

R-6:

in inches (millimeters)

R-6/P600 .280(5.3) .270(4.8) 1.0(25.4) P600: .360(9.1) MIN. .340(8.6) DIA.



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	Description of changes				
Rev.A	2021.06.01	Released Datasheet				
Rev.B	2024.02.22	Modify document format				



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