

# 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 ℃/10 seconds



R-6/P600

## **Applications**

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)									
Parameter	Symbol	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	6					А		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	400				A			
Operating junction temperature range	Тл	-55 to +135				°C			
Storage temperature range	T <sub>STG</sub>	-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 <sub>0</sub> JC	19	°C /W				
Thermal Resistance, Junction to Lead	R <sub>θJL</sub>	16	°C /W				



# **6A05 thru 6A10**GOOD-ARK Electronics

Electrical Sp	Symbol	Test	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Unit
	- <b>,</b>	Conditions								
Forward Drop Voltage	V <sub>F</sub>	I <sub>F</sub> =6A				0.95				٧
Reverse leakage	ge ,	TJ =25°C				5				
current @V <sub>R</sub>	I <sub>R</sub>	T <sub>J</sub> =125°C	200							uA
Typical junction capacitance	Сл	4.0 V 1 MHZ	150				pF			

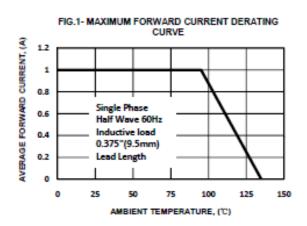
#### Note:

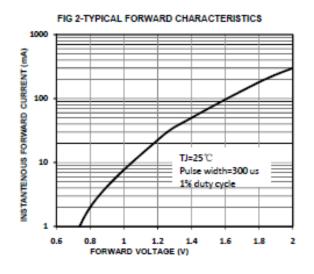
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

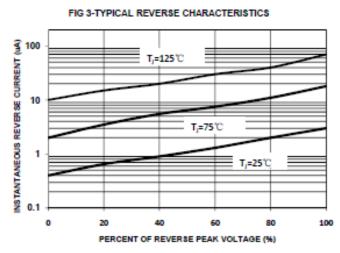


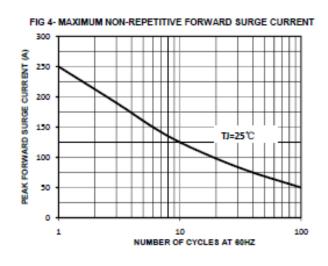
# **Ratings and Characteristics Curves**

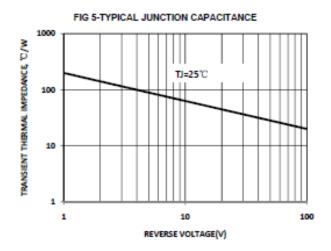
(TA = 25°C unless otherwise noted)









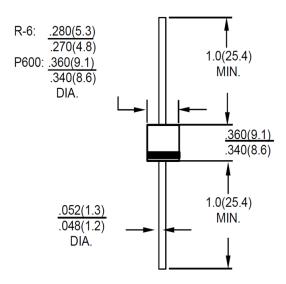




# **Package Outline Dimensions**

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	2024.02.22	Modify document format



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