

# 6A05G THRU 6A10G

# **General Purpose Rectifier**

#### Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- $\bullet$  Solder dip 275 °C max. 7 s, per JESD 22-B106

#### **Typical Applications**

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

#### Mechanical Data

• Package:P600 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per J-STD-

002 and JESD22-B102

Polarity:Color band denotes cathode end

### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	6A 05G	6A 1G	6A 2G	6A 4G	6A 6G	6A 8G	6A 10G
Maximum Repetitive Peak Reverse Voltage		V	50	100	200	400	600	800	1000
Maximum RMS Voltage	Vrms	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage		V	50	100	200	400	600	800	1000
Average Forward Current @Half-sine wave, Resistance load, Tc(Fig.1)	lo	А				6			
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25°C	IFSM	А	175						
Current squared time @1ms≤t8.3≤ms Ta=25℃,Rating of per diode	l²t	A²s				127.1			
Thermal Resistance(Typical) @Between junction and case	R <sub>0J-A</sub>	°C/W	20						
Storage Temperature	Tstg	°C			-	55 ~ +15	0		
Junction Temperature	T <sub>j</sub>	°C				55 ~ +15	0		

## ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	6A 05G	6A 1G	6A 2G	6A 4G	6A 6G	6A 8G	6A 10G
Peak Forward Voltage	VFM	V	I F =6.0A	1.1						
Peak Reverse Current	I <sub>RRM</sub>	μA	VR =V <sub>DC</sub> @Ta=25℃	5						
			VR =V <sub>DC</sub> @Ta=125℃	500						







## Characteristics (Typical)



#### FIG.2: Forward Surge Current Capability



FIG.3: Forward Voltage

FIG.4: Typical Reverse Characteristics







# Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
6A05G THRU 6A10G	P600	350	350	3500	Ammo box	

### Outline Dimensions





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