

■ FEATURES

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

■ TYPICAL APPLICATIONS

- **Package:** R-6
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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	P6A05G	P6A1G	P6A2G	P6A4G	P6A6G	P6A8G	P6A10G
Device marking code			P6A05G	P6A1G	P6A2G	P6A4G	P6A6G	P6A8G	P6A10G
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, T _a =75 °C	I _{F(AV)}	A	6.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _a =25	IFSM	A	200						
Storage Temperature	T _{stg}		-55 ~+150						
Junction Temperature	T _j		-55~+150						

■ ELECTRICAL CHARACTERISTICS (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	P6A05G	P6A1G	P6A2G	P6A4G	P6A6G	P6A8G	P6A10G
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =6.0A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	μA	T _a =25°C	2.5						
	I _{RRM2}		T _a =100°C	50						
Typical junction capacitance	C _j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	50						

■ THERMAL CHARACTERISTICS (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	P6A05G	P6A1G	P6A2G	P6A4G	P6A6G	P6A8G	P6A10G
Thermal Resistance(Typical)	R _{θJ-A}	°C/W	12						

■ **PACKAGING INFORMATION**

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
P6A05G~P6A10G	D1	Approximate 1.95	500	500	5000	Tape
P6A05G~P6A10G	C1	Approximate 1.95	100	100	5000	Bulk

■ **CHARACTERISTICS (TYPICAL)**

FIG.1: I_o - T_a Curve

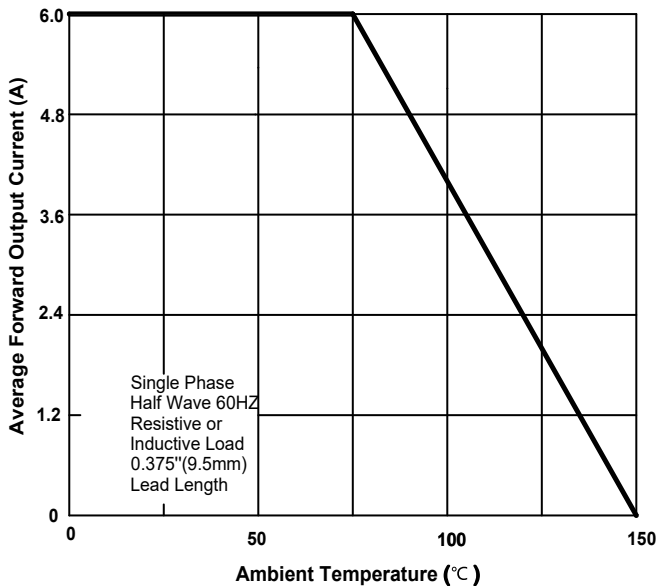


FIG.2: Forward Surge Current Capability

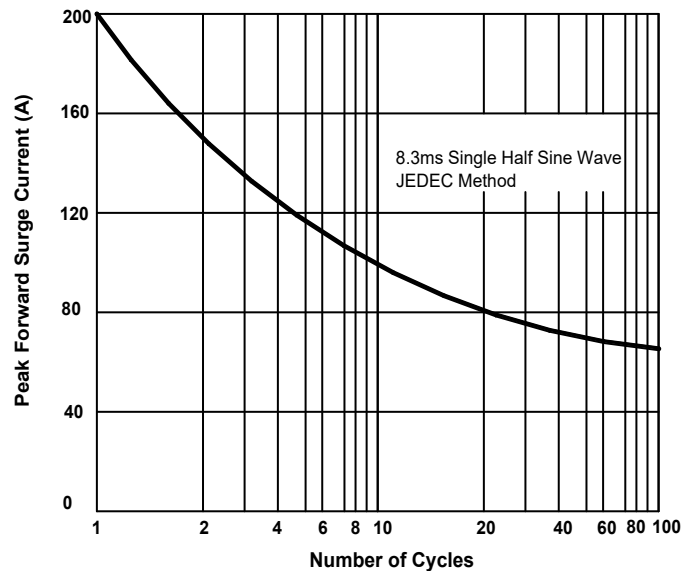


FIG.3: Forward Voltage

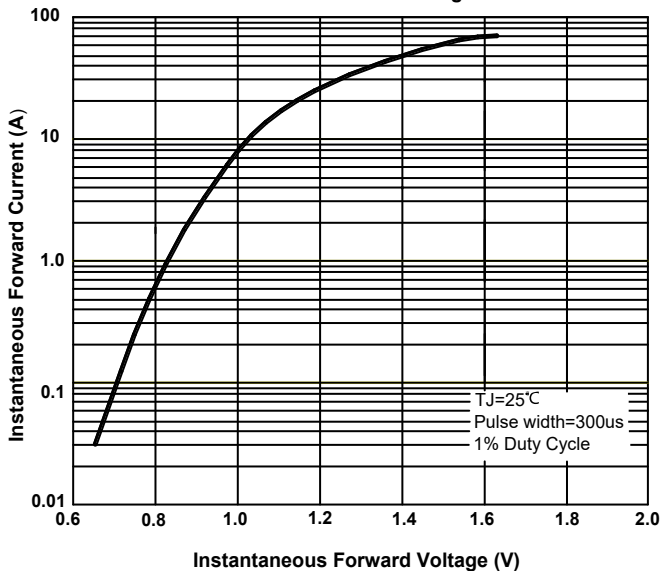
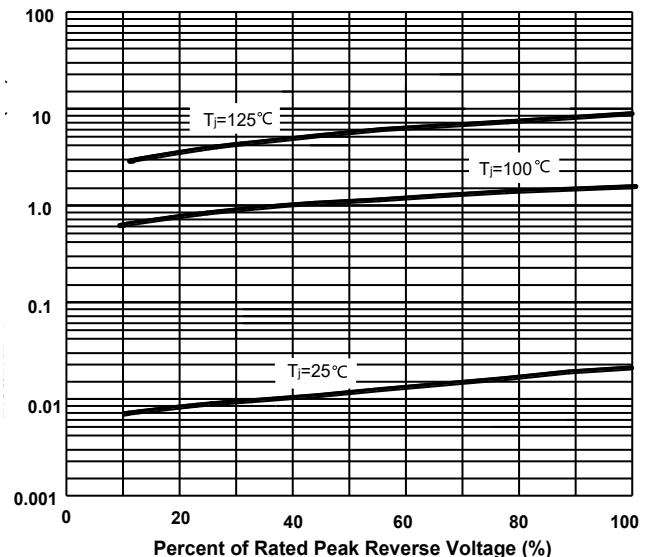
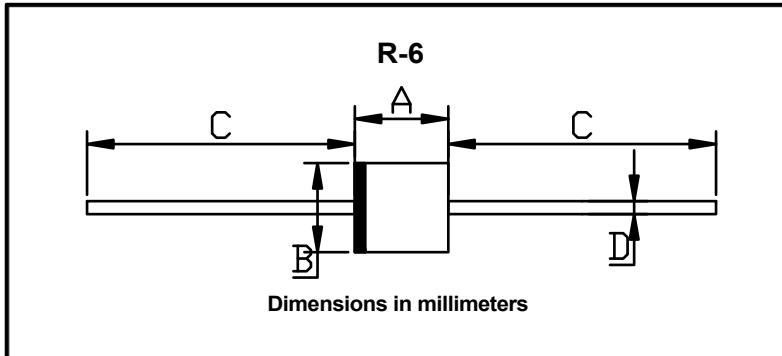


FIG.4: Typical Reverse Characteristics



■ **OUTLINE DIMENSIONS**



R-6		
Dim	Min	Max
A	8.60	9.10
B	8.60	9.10
C	25.4	/
D	1.20	1.32