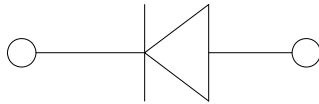
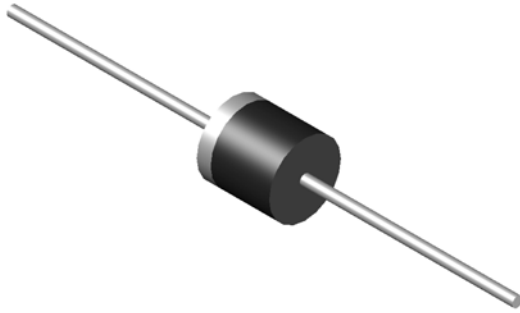


General Purpose Rectifier



Features

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

Mechanical Data

- **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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	P6A05	P6A1	P6A2	P6A4	P6A6	P6A8	P6A10
Device marking code			P6A05	P6A1	P6A2	P6A4	P6A6	P6A8	P6A10
Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta =75°C	$I_{F(AV)}$	A	6.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	I_{FSM}	A	200						
Storage Temperature	T_{stg}	°C	-55 ~+150						
Junction Temperature	T_j	°C	-55~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	P6A05	P6A1	P6A2	P6A4	P6A6	P6A8	P6A10
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	Ta=25°C	2.5						
	I_{RRM2}		Ta=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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	P6A05	P6A1	P6A2	P6A4	P6A6	P6A8	P6A10
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	12						



P6A05 THRU P6A10

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
P6A05~P6A10	D1	Approximate 1.95	500	500	5000	Tape
P6A05~P6A10	C1	Approximate 1.95	100	100	5000	Bulk

Characteristics (Typical)

FIG.1: I_o-T_a Curve

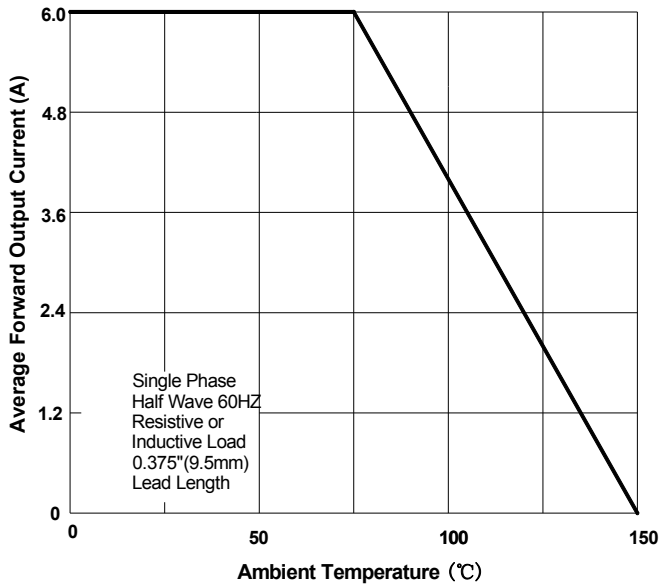


FIG.2: Forward Surge Current Capability

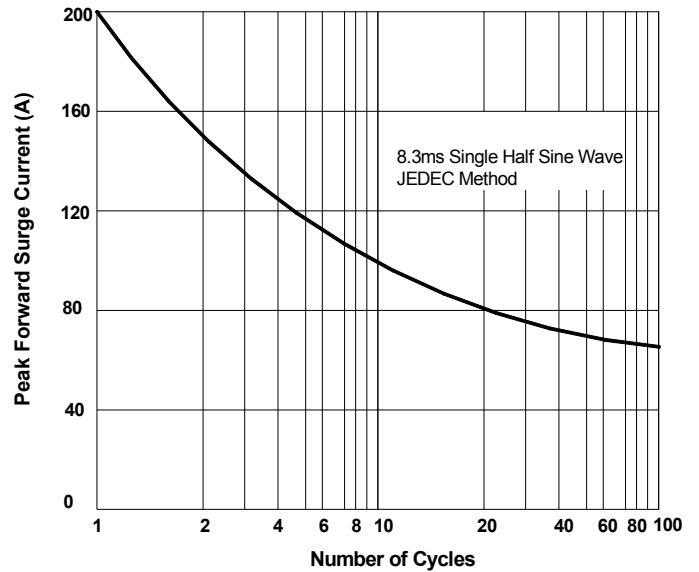


FIG.3: Forward Voltage

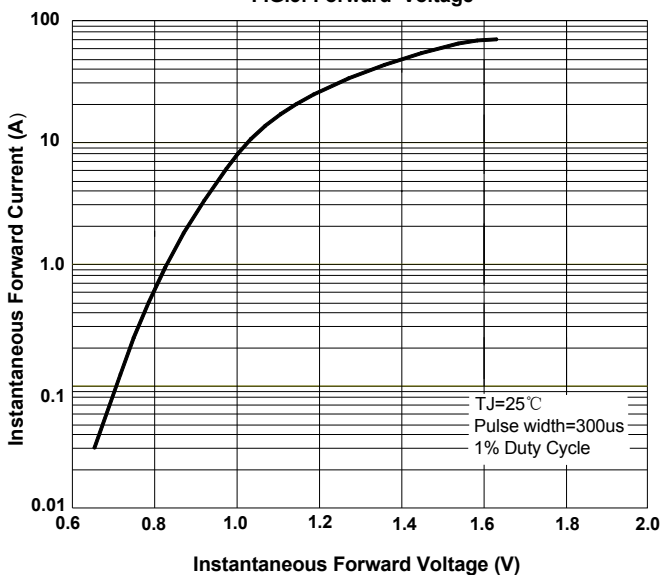
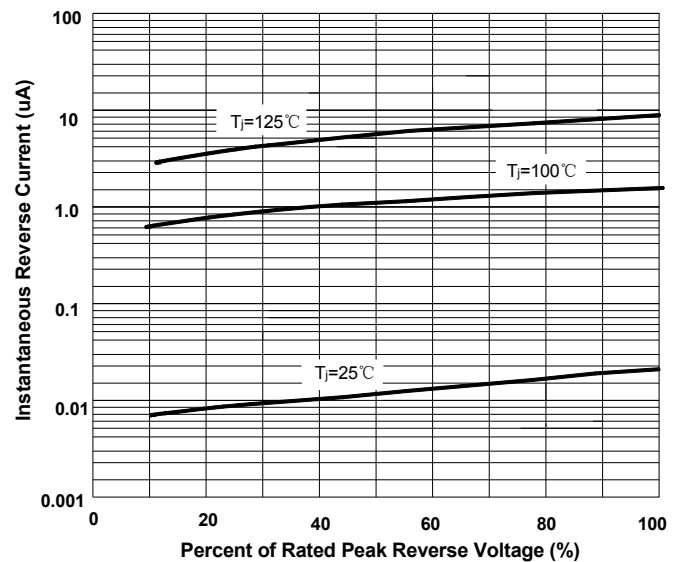


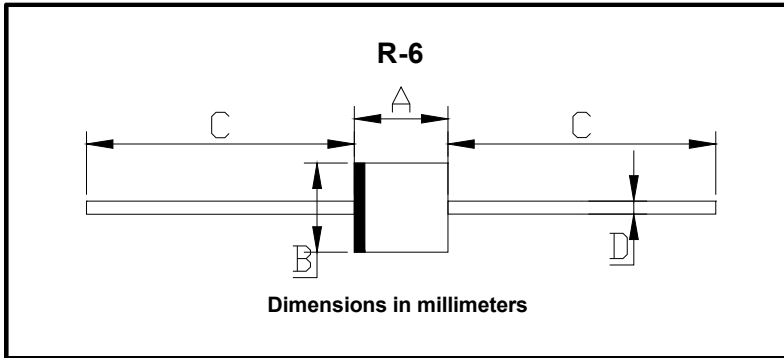
FIG.4: Typical Reverse Characteristics





P6A05 THRU P6A10

■ 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



P6A05 THRU P6A10

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