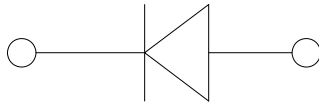
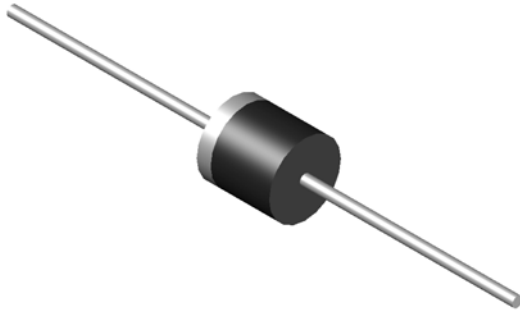


General Purpose Rectifier



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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	10A05G	10A1G	10A2G	10A4G	10A6G	10A8G	10A10G
Device marking code			10A05G	10A1G	10A2G	10A4G	10A6G	10A8G	10A10G
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, T _a =65°C	I _{F(AV)}	A	10						
Surge(Non-repetitive)Forward Current @ 60Hz Half-sine wave, 1 cycle, T _a =25°C	IFSM	A	300						
Storage Temperature	T _{stg}	°C	-55 ~+150						
Junction Temperature	T _j	°C	-55~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	10A05G	10A1G	10A2G	10A4G	10A6G	10A8G	10A10G
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =10.0A	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 =125°C	50						
Reverse Recovery time	t _{rr}	ns	I _F =0.5A I _R =1A I _{RR} =0.25A	>500						
Typical junction capacitance	C _j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	80						

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	10A05G	10A1G	10A2G	10A4G	10A6G	10A8G	10A10G
Thermal Resistance(Typical)	R _{θJ-A}	°C/W	8						



10A05G THRU 10A10G

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
10A05G~10A10G	D1	Approximate 1.95	500	500	5000	Tape
10A05G~10A10G	C1	Approximate 1.95	100	100	5000	Bulk

Characteristics (Typical)

FIG.1: I_o - T_a Curve

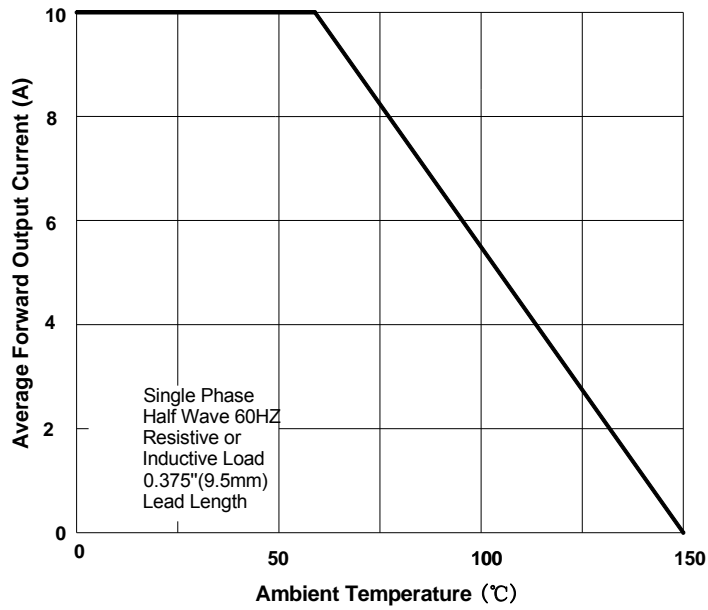


FIG.2: Surge Forward Current Capability

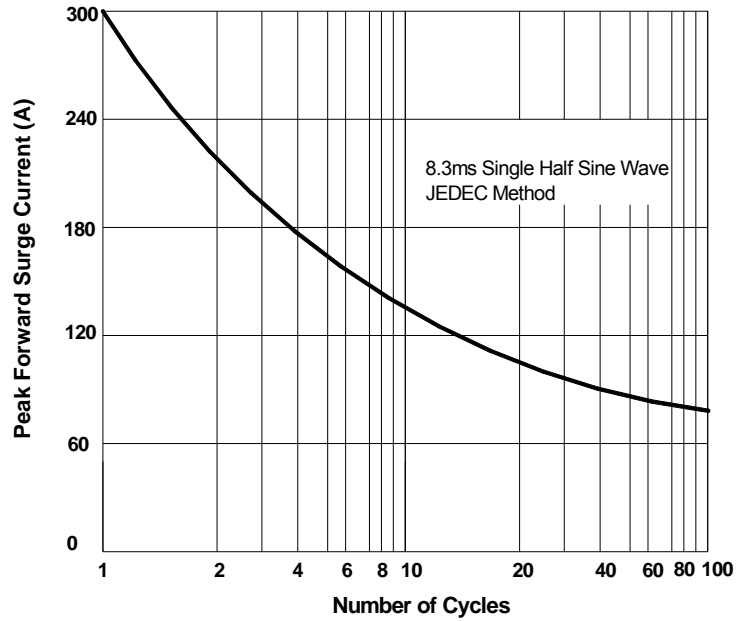


FIG.3: Forward Voltage

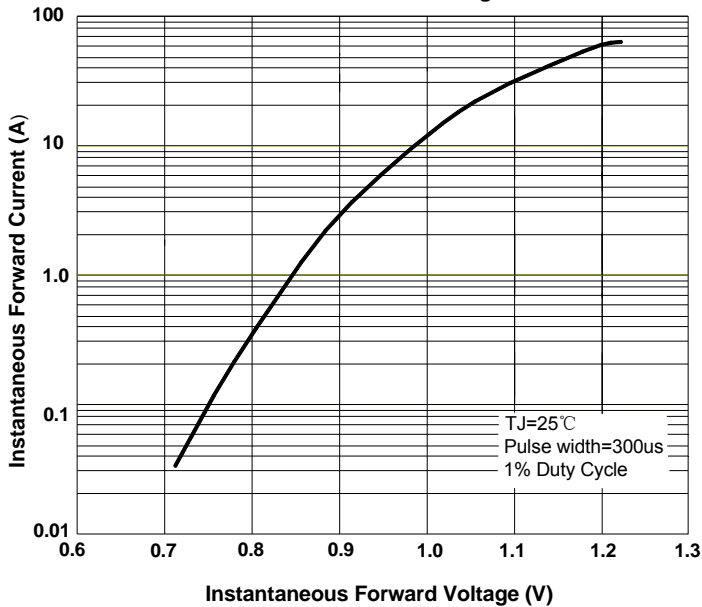
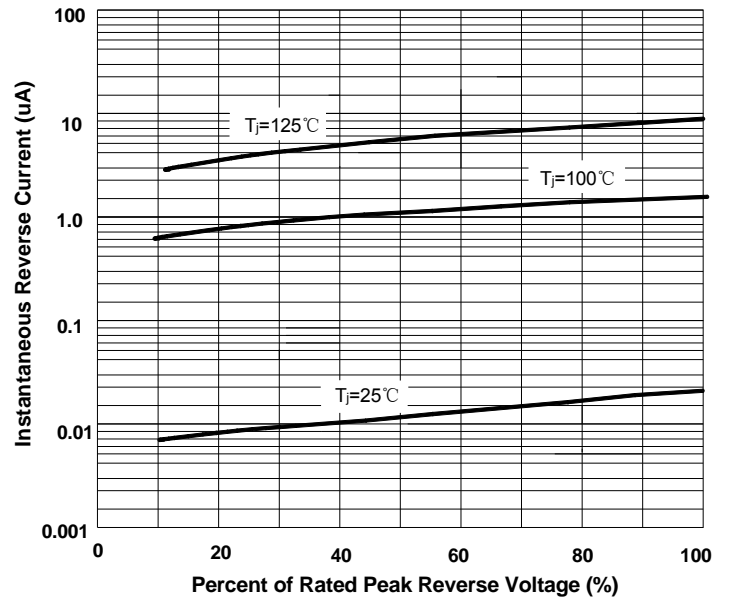


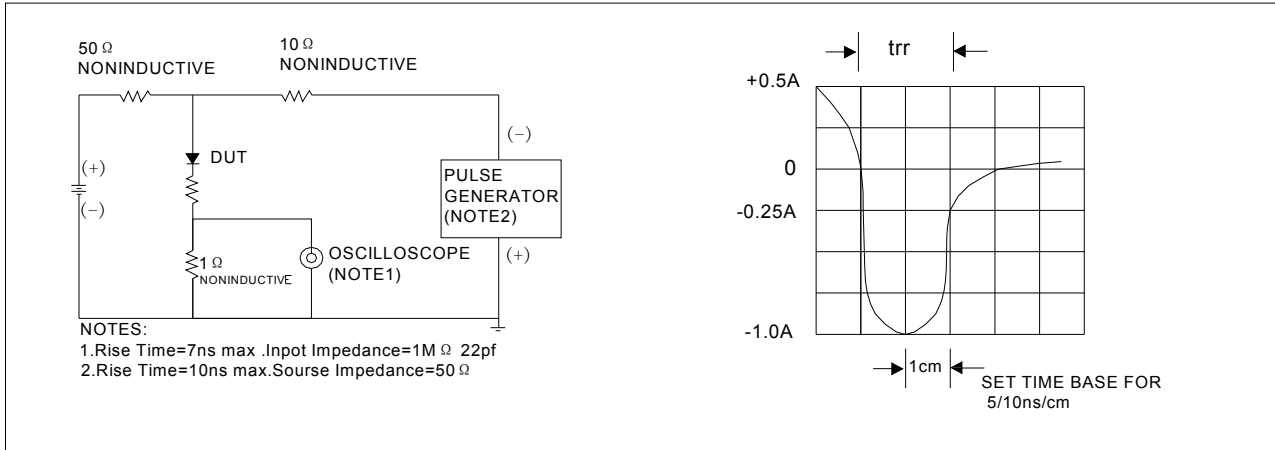
FIG.4: Typical Reverse Characteristics



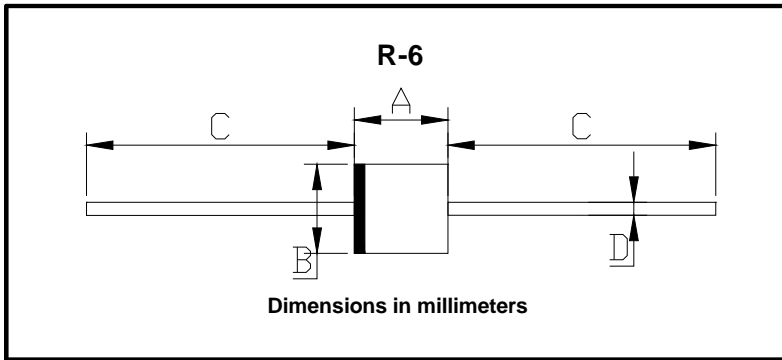


10A05G THRU 10A10G

FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ 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



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