



ER201G THRU ER208G

Superfast Recovery Rectifiers

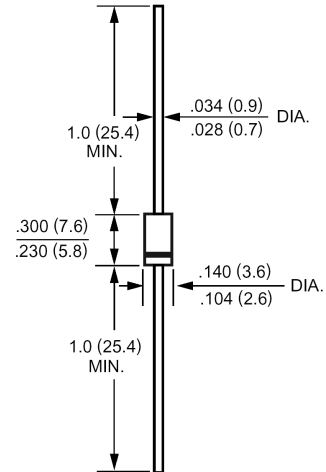
FEATURES

- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- Hermetically sealed.
- Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

Case: Molded plastic, DO-15
Terminals: Axial leads, solderable to MIL-STD-202G, Method 208
Polarity: Color Band denotes cathode end
Mounting Position: Any
Weight: 0.015 ounce, 0.4 gram

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	ER201G	ER202G	ER203G	ER204G	ER206G	ER207G	ER208G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	300	400	600	700	800	V
Maximum RMS Voltage	V _{RMS}	70	140	210	280	420	490	560	V
Maximum DC Blocking Voltage	V _{DC}	100	200	300	400	600	700	800	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}	2.0							A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	50							A
Maximum Forward Voltage at 2.0A DC	V _F	0.95	1.3		1.70		1.75	V	
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =125°C	I _R	1.0 300							μA
Maximum Reverse Recovery Time(Note 1)	t _{rr}	35							ns
Typical Junction capacitance (Note 2)	C _J	35							pF
Typical Junction Resistance(Note 3)	R _{θJA}	20							°C / W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150							°C

NOTES:1. Reverse Recovery Test Conditions: $I_F=.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=.25\text{A}$

2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted





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RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM AVERAGE FORWARD CURRENT RATING

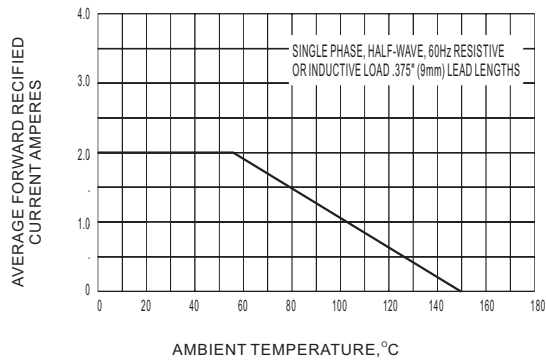


FIG.2 MAXIMUM NON-REPEITIVE SURGE CURRENT

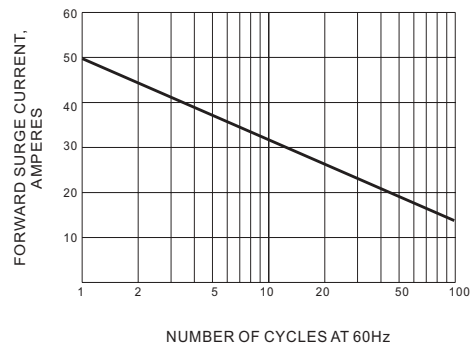


FIG.3 TYPICAL REVERSE CHARACTERISTICS

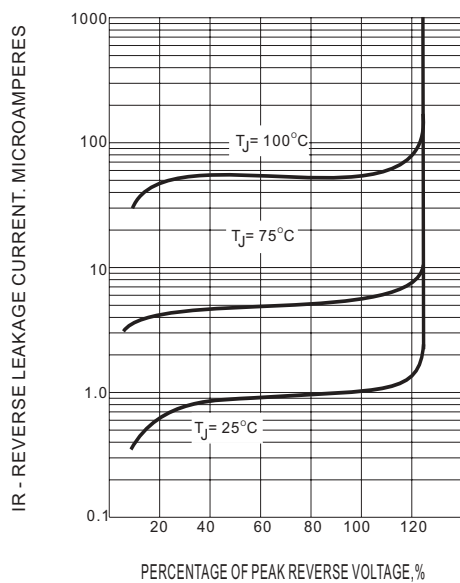


FIG.4 TYPICAL FORWARD CHARACTERISTICS

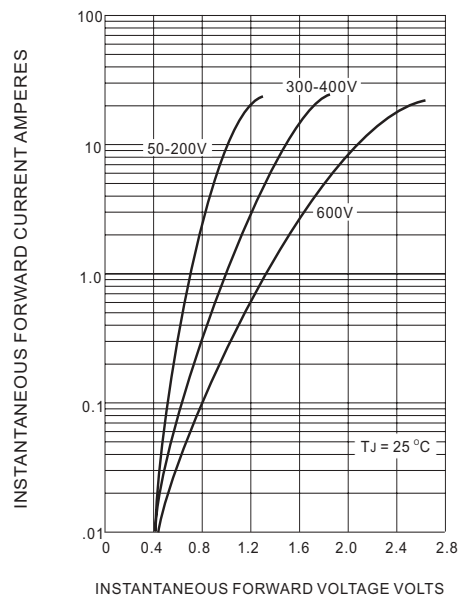


FIG.5 TYPICAL JUNCTION CAPACITANCE

