

## SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 50 to 600 Volts CURRENT 2.0 Ampere

DO-15

### 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

### MECHANICALDATA

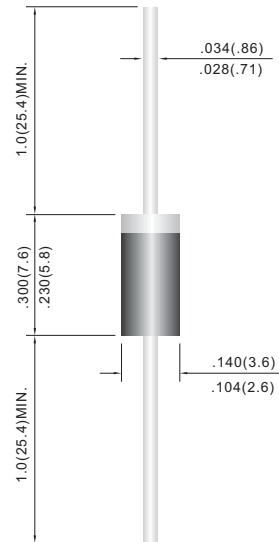
Case: Molded plastic, DO-15

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



Unit: inch(mm)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	ER200	ER201	ER201A	ER202	ER203	ER204	ER206	ER206A	ER208	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	150	200	300	400	600	700	800	V
Maximum RMS Voltage	$V_{RMS}$	35	70	105	140	210	280	420	490	560	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	150	200	300	400	600	700	800	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_A=55^\circ\text{C}$	$I_{F(AV)}$	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			1.25		1.70	2.0	2.5		V
Maximum DC Reverse Current at $T_j=25^\circ\text{C}$ Rated DC Blocking Voltage $T_j=125^\circ\text{C}$	$I_R$					1.0	300				$\mu\text{A}$
Maximum Reverse Recovery Time(Note 1)	$t_{rr}$					35					ns
Typical Junction capacitance (Note 2)	$C_J$					35					pF
Typical Junction Resistance(Note 3)	$R_{\theta JA}$					20					$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150									$^\circ\text{C}$

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

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

## SUPERFAST RECOVERY RECTIFIERS

FIG.1 MAXIMUM AVERAGE FORWARD CURRENT RATING

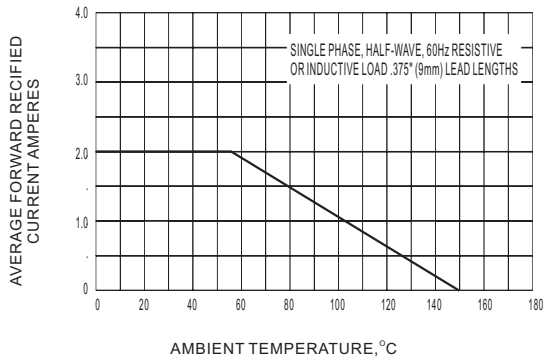


FIG.2 MAXIMUM NON-REPEITIVE SURGE CURRENT

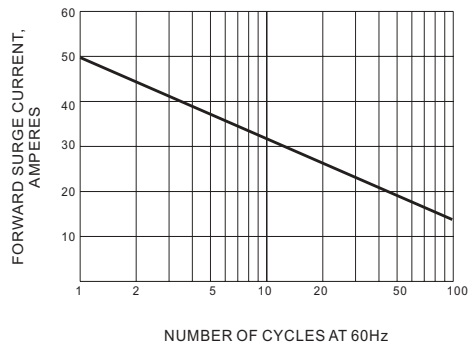


FIG.3 TYPICAL REVERSE CHARACTERISTICS

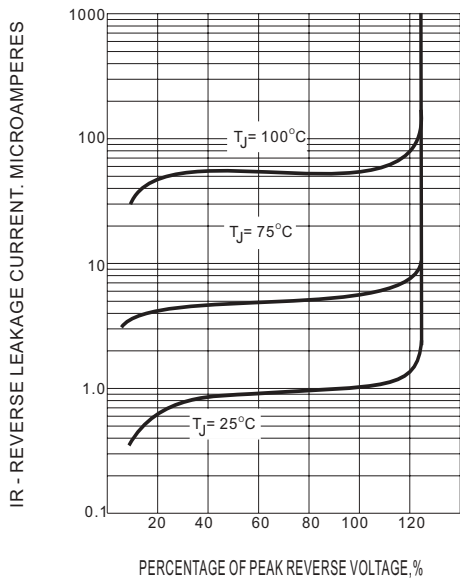


FIG.4 TYPICAL FORWARD CHARACTERISTICS

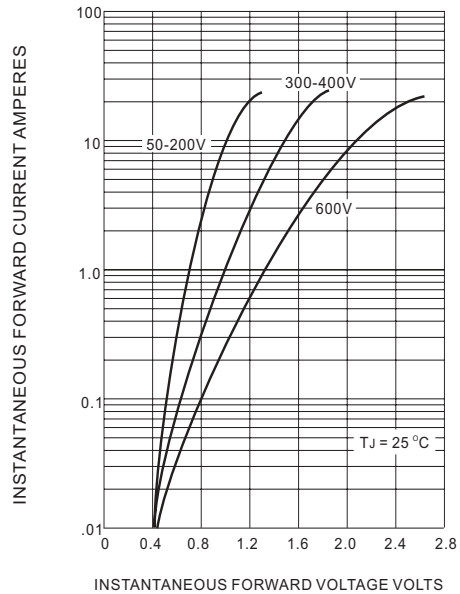
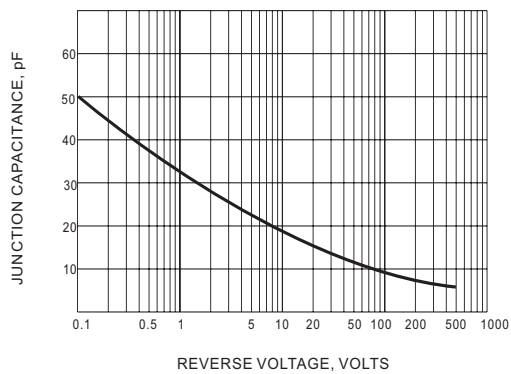


FIG.5 TYPICAL JUNCTION CAPACITANCE



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