ER100 ~ ER108

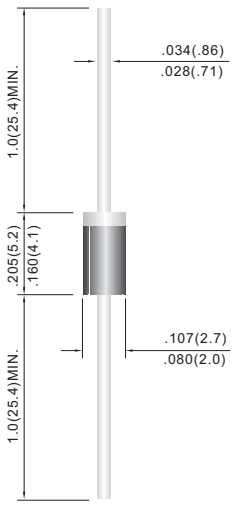
SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 50 to 800 Volts **CURRENT** 1.0 Ampere

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- 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.
- Lead free in comply with EU RoHS 2002/95/EC directives.

DO-41 Unit: inch(mm)



MECHANICAL DATA

- Case: Molded plastic, DO-41.
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end.
- Mounting Position: Any
- Weight: 0.0118 ounce, 0.397 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	ER100	ER101	ER101A	ER102	ER103	ER104	ER106	ER108	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	800	V
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	600	800	V
Maximum Average Forward Current .375"(9.5mm) lead length at T_A=55°C	$I_{F(AV)}$	1.0								A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	30								A
Maximum Forward Voltage at 1.0A	V_F	0.95				1.25		1.7	2.5	V
Maximum DC Reverse Current T_J=25°C at Rated DC Blocking Voltage T_J=100°C	I_R	1.0 150								μA
Typical Junction capacitance (Note 2)	C_J	17								pF
Maximum Reverse Recovery Time (Note 1)	t_{rr}	35								ns
Typical Thermal Resistance	$R_{\theta JA}$	50								°C / W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150								°C

NOTES:

1. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, Irr=.25A
2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

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ER100 ~ ER108

RATING AND CHARACTERISTIC CURVES

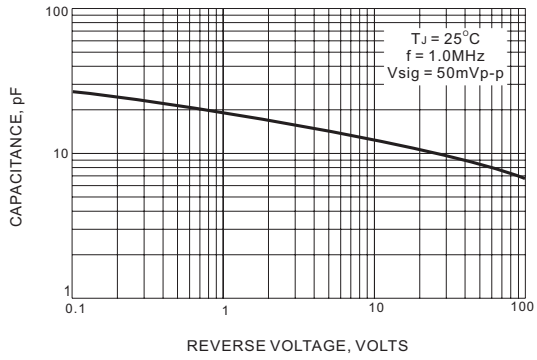


FIG.1 TYPICAL JUNCTION CAPACITANCE

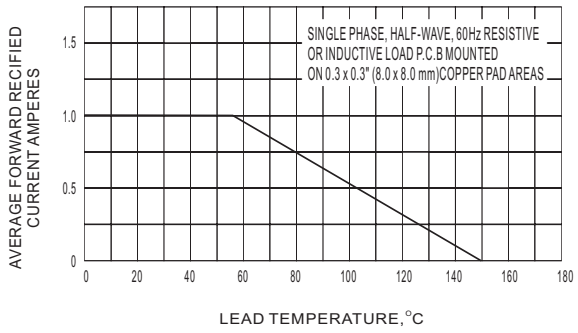


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

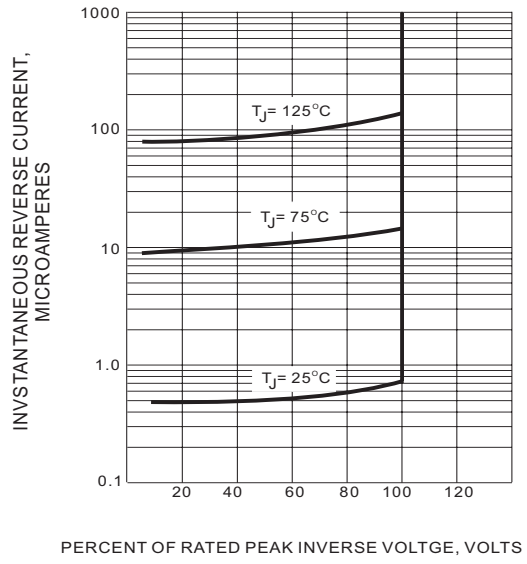


FIG.3 TYPICAL REVERSE CHARACTERISTICS

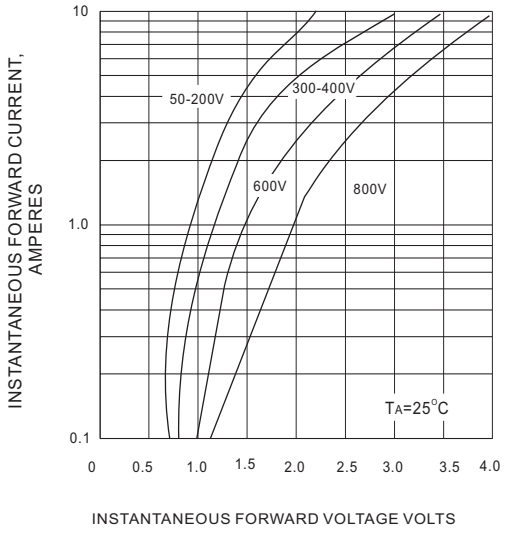


FIG.4 TYPICAL FORWARD CHARACTERISTICS

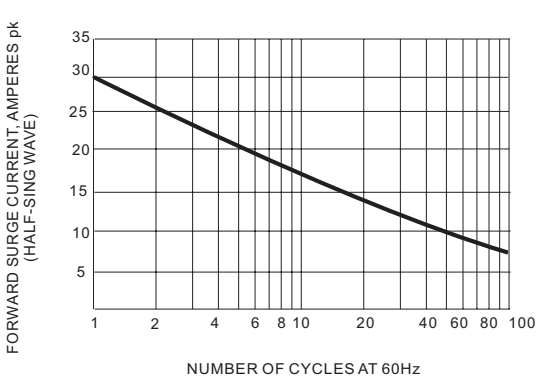
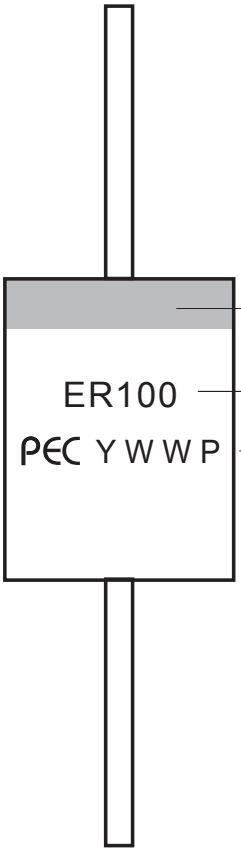


FIG.5 MAXIMUM NON-REPEITIVE SURGE CURRENT

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2. MARKING



Cathode band

1st line: Marking code

2nd line: PEC PanJit logo

Y- Last digit of calendar year

WW- Weekly

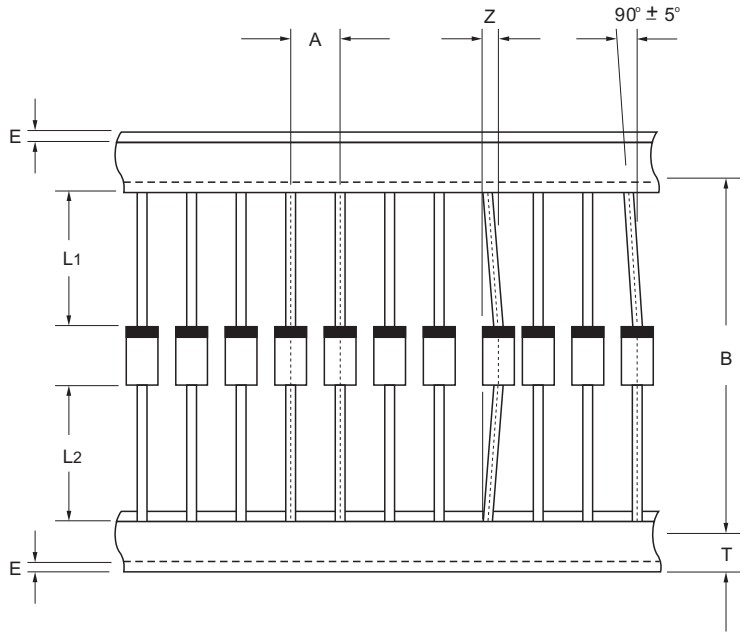
P- Production line

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3. TAPING

Axial lead devices are packed in accordance with EIA standard RS-296-E and specifications given below.

COMPONENT OUTLINE	COMPONENT PITCH A ± 0.5mm	INTER TAPE PITCH B ± 1.0mm	CUMULATIVE PITCH TOLERANCE
DO-41	5.0mm	52.0mm	1.0mm/20pitch



ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0±0.4	0.236±0.016
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	L1-L2	1.0max	0.040max

NOTES: Each component lead shall be sandwiched between tapes for a minimum of 3.2mm (0.126")

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