

ER100G~ ER108G

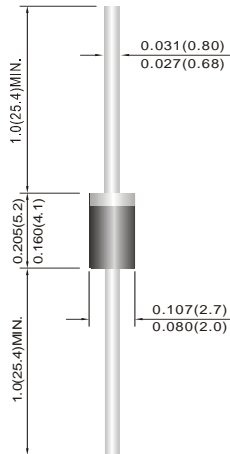
GLASS PASSIVATED JUNCTION SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 50 to 800 Volts CURRENT 1.0 Ampere



DO-41

Unit: inch(mm)



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.
- In compliance with EU RoHS 2002/95/EC directives

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	ER100G	ER101G	ER101AG	ER102G	ER103G	ER104G	ER106G	ER108G	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 $T_A=55^\circ\text{C}$	$I_{F(AV)}$	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 $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R					5.0				μA
						150				
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				$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 TO +150								$^\circ\text{C}$

NOTES:

1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$
2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

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RATING AND CHARACTERISTIC CURVES

