



SUPERFAST RECOVERY RECTIFIERS

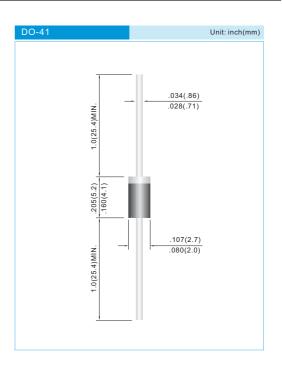
VOLTAGE 50 to 800 Volts CURRENT 1.0 Ampere

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 compliance with EU RoHS 2011/65/EU directive

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.

SYMBOL	ER100	ER101	ER101A	ER102	ER103	ER104	ER106	ER108	UNITS
V _{RRM}	50	100	150	200	300	400	600	800	V
V _{RMS}	35	70	105	140	210	280	420	560	V
V _{DC}	50	100	150	200	300	400	600	800	V
I _{F(AV)}	1.0								Α
I _{FSM}	30							А	
V _F		0	1.25		1.7	2.5	V		
I _R	1.0 150							∝A	
C¹	17								pF
t _{rr}	35							ns	
R _{eJA}	50						°C /		
T _J ,T _{STG}	-55 to +150							°C	
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ I_{F(AV)} \\ I_{FSM} \\ V_{F} \\ I_{R} \\ C_{J} \\ t_{rr} \\ R_{\theta JA} \end{array}$	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} I _{FSM} V _F I _R C _J t _{rr} R _{θJA}	V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _{F(AV)} I _{FSM} V _F 0 I _R C _J t _{rr} R _{0JA}	V _{RRM} 50 100 150 V _{RMS} 35 70 105 V _{DC} 50 100 150 I _{F(AV)} V _F 0.95 I _R C _J t _{rr} R _{θJA}	V _{RRM} 50 100 150 200 V _{RMS} 35 70 105 140 V _{DC} 50 100 150 200 I _{F(AV)} 1. 30 V _F 0.95 1. 1. C _J 1. 1. 1. C _J 1. 1. 1. R _{BJA} 50 50 50	V _{RRM} 50 100 150 200 300 V _{RMS} 35 70 105 140 210 V _{DC} 50 100 150 200 300 I _{F(AV)} 1.0 30 V _F 0.95 1.0 1.0 I _R 150 17 t _{rr} 35 35 R _{θJA} 50 50	V _{RRM} 50 100 150 200 300 400 V _{RMS} 35 70 105 140 210 280 V _{DC} 50 100 150 200 300 400 I _{F(AV)} 1.0 30 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 </td <td>V_{RRM} 50 100 150 200 300 400 600 V_{RMS} 35 70 105 140 210 280 420 V_{DC} 50 100 150 200 300 400 600 I_{F(AV)} 1.0 30 30 400 600 V_F 0.95 1.25 1.7 I_R 150 17 17 t_{rr} 35 50</td> <td>V_{RMS} 35 70 105 140 210 280 420 560 V_{DC} 50 100 150 200 300 400 600 800 I_{F(AV)} 1.0 I_{FSM} 30 V_F 0.95 1.25 1.7 2.5 I_R 150 C_J 17 t_{rr} 35 R_{θJA} 50</td>	V _{RRM} 50 100 150 200 300 400 600 V _{RMS} 35 70 105 140 210 280 420 V _{DC} 50 100 150 200 300 400 600 I _{F(AV)} 1.0 30 30 400 600 V _F 0.95 1.25 1.7 I _R 150 17 17 t _{rr} 35 50	V _{RMS} 35 70 105 140 210 280 420 560 V _{DC} 50 100 150 200 300 400 600 800 I _{F(AV)} 1.0 I _{FSM} 30 V _F 0.95 1.25 1.7 2.5 I _R 150 C _J 17 t _{rr} 35 R _{θJA} 50

NOTES:

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





RATING AND CHARACTERISTIC CURVES

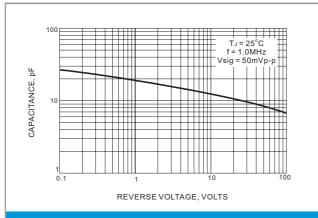


FIG 1 TYPICAL JUNCTION CAPACITANCE

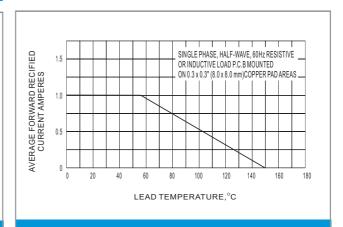
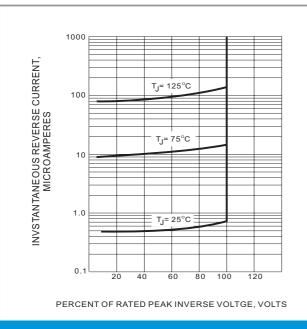


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING





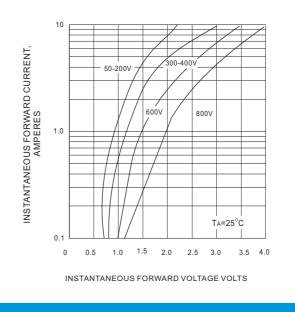
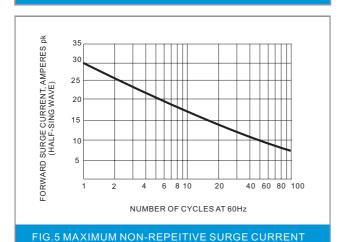


FIG.4 TYPICAL FORWARD CHARACTERISTICS







Part No_packing code_Version

ER100_AY_00001

ER100_AY_10001

ER100_B0_00001

ER100_B0_10001

ER100_R2_00001

ER100_R2_10001

For example:



Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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