



#### **SUPERFAST RECOVERY RECTIFIERS**

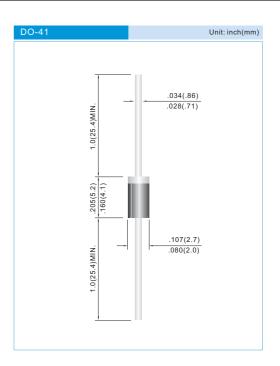
VOLTAGE 50 to 800 Volts CURRENT 1.0 Ampere

#### **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.

PARAMETER	SYMBOL	ER100	ER101	ER101A	ER102	ER103	ER104	ER106	ER108	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	800	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	560	٧
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	800	V
Maximum Average Forward Current .375"(9.5mm) lead length at T <sub>A</sub> =55°C	I <sub>F(AV)</sub>	1.0							Α	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	30							Α	
Maximum Forward Voltage at 1.0A	V <sub>F</sub>	0.95			1.	25	1.7	2.5	V	
Maximum DC Reverse Current T <sub>J</sub> =25°C at Rated DC Blocking Voltage T <sub>J</sub> =100°C	I <sub>R</sub>	1.0 150						μΑ		
Typical Junction capacitance (Note 2)	C¹	17							pF	
Maximum Reverse Recovery Time (Note 1)	t <sub>rr</sub>	35						ns		
Typical Thermal Resistance	R <sub>eJA</sub>	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,  $I_r$ =.25A
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC





#### RATING AND CHARACTERISTIC CURVES

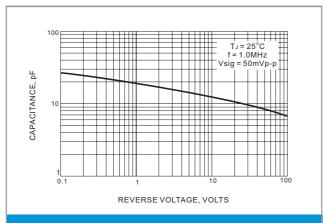


FIG.1 TYPICAL JUNCTION CAPACITANCE

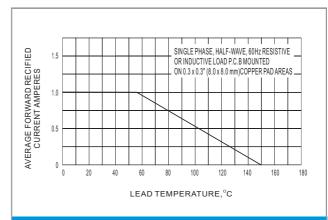


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

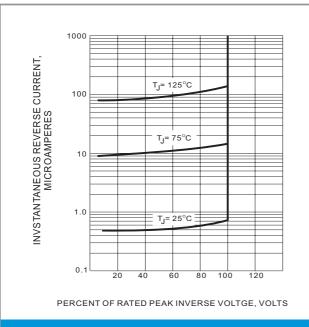


FIG.3 TYPICAL REVERSE CHARACTERISTICS

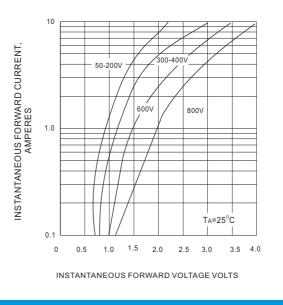


FIG.4 TYPICAL FORWARD CHARACTERISTICS

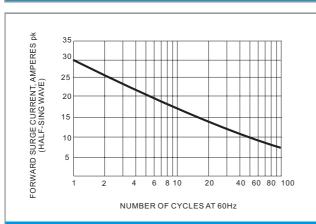


FIG.5 MAXIMUM NON-REPEITIVE SURGE CURRENT





### 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 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1st Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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	Х					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
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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