



## **ER504-LE**

## SUPERFAST RECOVERY RECTIFIERS

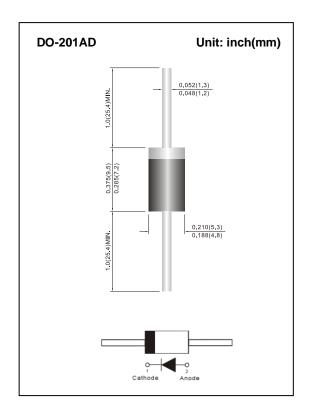
Voltage 400 V Current 5 A

### **Features**

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Hermetically sealed.
- Low leakage
- High surge capacity
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. .(Halogen Free)

### Mechanical Data

- Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.04 ounces, 1.142 grams



## Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	400	V
Maximum rms voltage		VRMS	280	V
Maximum dc blocking voltage		VR	400	V
Maximum average forward current		<b>I</b> F(AV)	5	А
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		Ifsм	150	А
Maximum forward voltage at 5A		VF	1.3	V
Maximum dc reverse current at rated dc blocking voltage		lr	5	μА
Typical junction capacitance  Measured at 1MHZ and applied V <sub>R</sub> =4V		CJ	60	pF
Typical thermal resistance	(Note 1)	R <sub>eJC</sub>	10	°C/W
Maximum reverse recovery time	(Note 2)	Trr	35	ns
Operating and storage temperature range		TJ, TSTG	-55 to +150	°C

Note: 1. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area

2. Reverse Recovery Test Conditions : IF=0.5A, IR=-1A, Recover to -0.25A

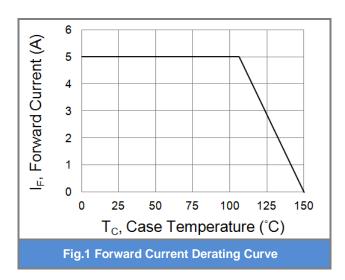
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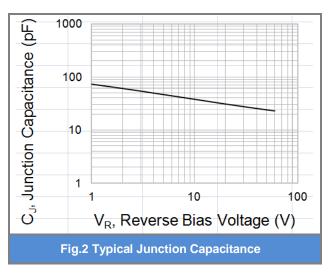


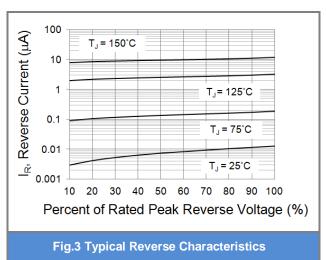


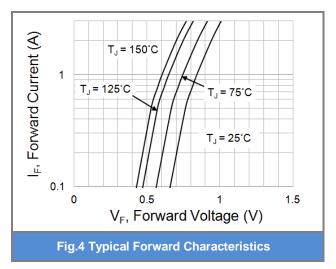
# **E**R504-LE

### **TYPICAL CHARACTERISTIC CURVES**









### **Part No Packing Code Version**

Part No Packing Code	Package Type	Packing Type	Marking	Version
ER504-LE_AY_00001	DO-201AD	1.25K pcs / box	LER504	Halogen free
ER504-LE_B0_00001	DO-201AD	0.5K pcs / box	LER504	Halogen free
ER504-LE_R2_00001	DO-201AD	1.25K pcs / 13" reel	LER504	Halogen free

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