



ER506

Super Fast Recovery Rectifier

Voltage 600 V **Current** 5 A

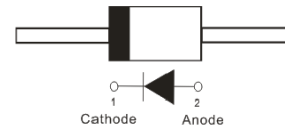
Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Super fast recovery times
- Low forward voltage, high current capability
- Hermetically sealed
- Low leakage
- High surge capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DO-201AD Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0396 ounces, 1.122 grams

DO-201AD



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	600	V
Maximum Rms Voltage	V _{RMS}	420	V
Maximum Dc Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Current	I _{F(AV)}	5	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	130	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V	C _J	33	pF
Typical Thermal Resistance ^(Note 1)	R _{θJA}	34	°C/W
	R _{θJC}	6	
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 5\text{ A}, T_J = 25^\circ\text{C}$	-	-	1.7	V
Reverse Current	I_R	$V_R = 600\text{ V}, T_J = 25^\circ\text{C}$	-	-	1	uA
		$V_R = 600\text{ V}, T_J = 125^\circ\text{C}$	-	-	300	
Reverse Recovery Time	T_{RR}	$I_F = 0.5\text{ A}, I_R = 1\text{ A},$ $I_{RR} = 0.25\text{ A}, T_J = 25^\circ\text{C}$	-	-	35	ns

NOTES:

1. Thermal resistance from junction to ambient and from junction to case at 0.375" (9.5mm) lead length P.C.B. mounted



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TYPICAL CHARACTERISTIC CURVES

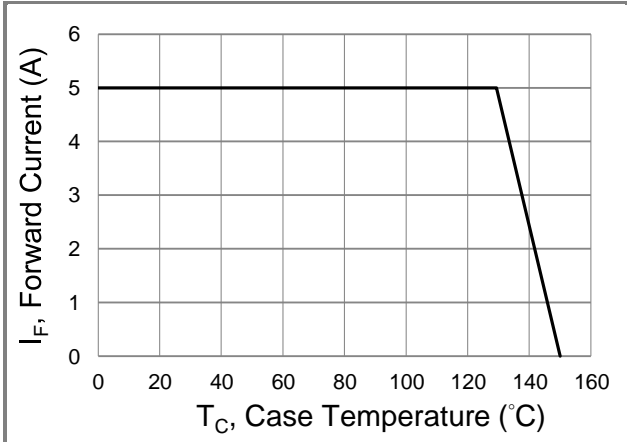


Fig.1 Forward Current Derating Curve

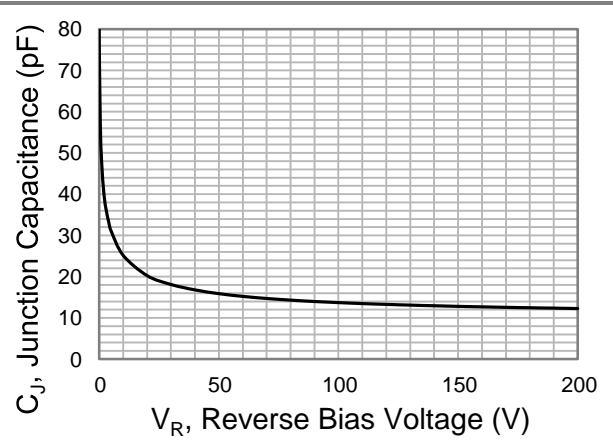


Fig.2 Typical Junction Capacitance

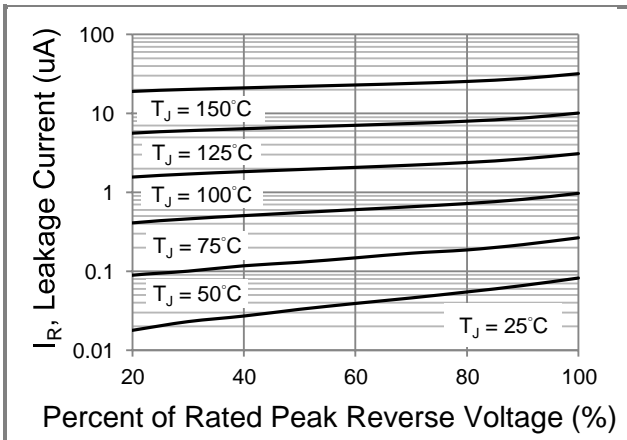


Fig.3 Typical Reverse Characteristics

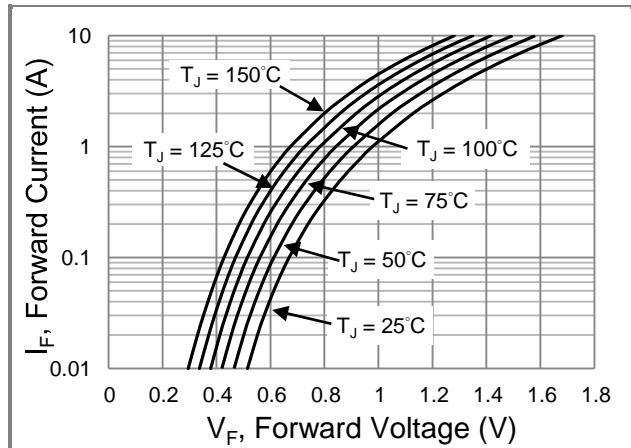


Fig.4 Typical Forward Characteristics

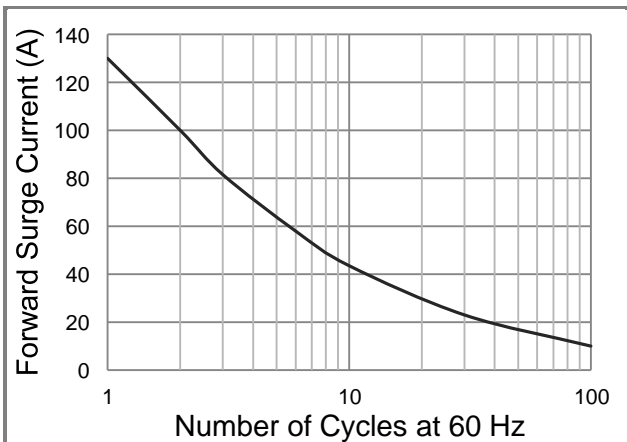


Fig.5 Maximum Non-Repetitive Surge Current

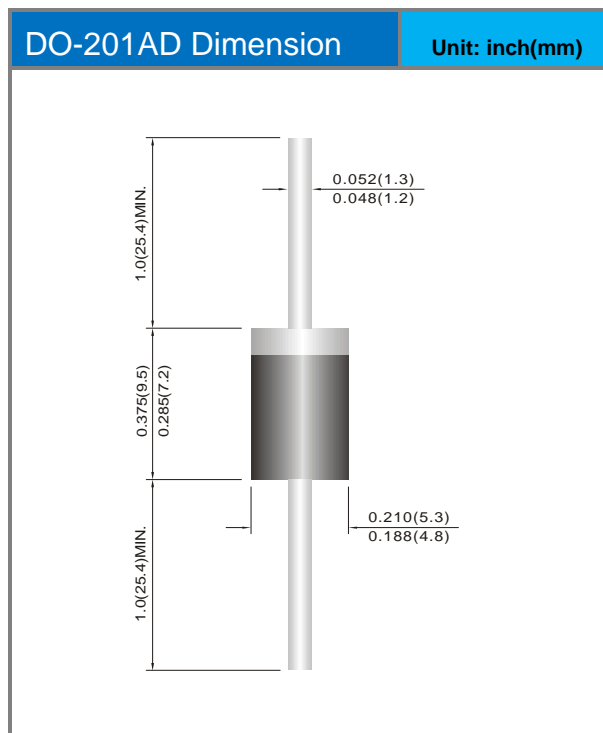


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Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
ER506_AY_00101	DO-201AD	1250pcs / Ammo	ER506	Halogen free
ER506_B0_00101	DO-201AD	500pcs / Box	ER506	Halogen free
ER506_R2_00101	DO-201AD	1250pcs / 13" reel	ER506	Halogen free

Packaging Information





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