



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	Α	
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	130	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$	Сл	33	pF	
Typical Thormal Deciston oc (Note 1)	RθJA	34	0000	
Typical Thermal Resistance ^(Note 1)		6	°C/W	
Operating Junction Temperature Range	ТJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	





Electrical Characteristics (T_A = 25 °C unless otherwise noted)

				MAX.	UNITS
V_{F}	I _F = 5 A, T _J = 25 °C	-	-	1.7	V
I _R	V _R = 600 V, T _J = 25 °C	-	-	1	
	V _R = 600 V, T _J = 125 °C	-	-	300	uA
T_RR	I _F = 0.5 A, I _R = 1 A,	-	-	35	ns
	I _R	$V_R = 600 \text{ V}, T_J = 25 \text{ °C}$ $V_R = 600 \text{ V}, T_J = 125 \text{ °C}$ $V_R = 600 \text{ V}, T_J = 125 \text{ °C}$	$I_{R} = \frac{V_{R} = 600 \text{ V}, T_{J} = 25 \text{ °C}}{V_{R} = 600 \text{ V}, T_{J} = 125 \text{ °C}} - \frac{1}{1600 \text{ V}}$ $I_{F} = 0.5 \text{ A}, I_{R} = 1 \text{ A}, \frac{1}{1600 \text{ A}}$	$I_{R} = \frac{V_{R} = 600 \text{ V, T}_{J} = 25 \text{ °C}}{V_{R} = 600 \text{ V, T}_{J} = 125 \text{ °C}} - \frac{1}{25 \text{ °C}}$ $I_{F} = 0.5 \text{ A, I}_{R} = 1 \text{ A, } \frac{1}{25 \text{ °C}} - \frac{1}{25 \text{ °C}}$	$I_{R} = \begin{cases} V_{R} = 600 \text{ V}, T_{J} = 25 \text{ °C} & - & - & 1 \\ V_{R} = 600 \text{ V}, T_{J} = 125 \text{ °C} & - & - & 300 \end{cases}$ $I_{F} = 0.5 \text{ A}, I_{R} = 1 \text{ A}, & - & 35 \end{cases}$

NOTES:

1.	Γhermal resistance from jur	ction 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

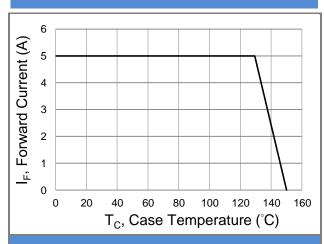


Fig.1 Forward Current Derating Curve

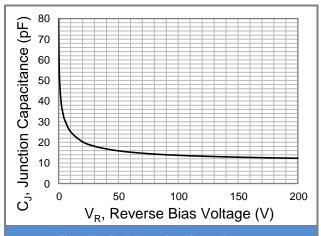


Fig.2 Typical Junction Capacitance

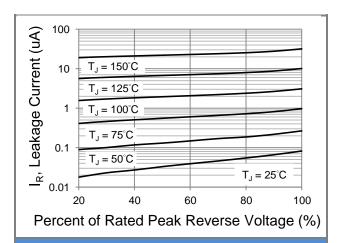
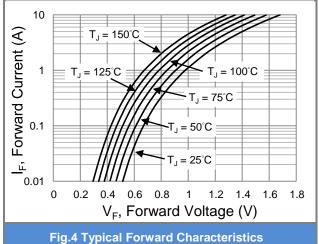


Fig.3 Typical Reverse Characteristics



140 Forward Surge Current (A) 120 100 80 60 40 20 0 100 Number of Cycles at 60 Hz Fig.5 Maximum Non-Repeitive Surge Current

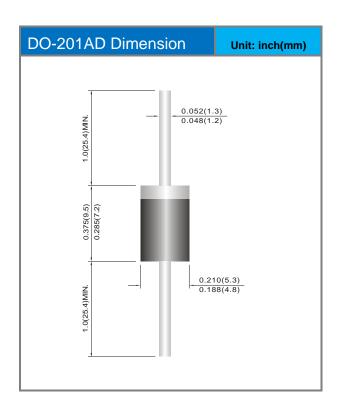




Part No. Packing Code Version

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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