



Super Fast Recovery Rectifier

Voltage 600 V Current 3 A

Features

- Plastic package has Underwriters Laboratories
 Flammability Classification 94V-O utilizing
 Flame Retardant Epoxy Molding Compound
- Superfast 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)}	3	Α	
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	110	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$	Сл	21	pF	
(Note 1)	R _{θJA}	31	°C/W	
Typical Thermal Resistance (Note 2)	Rejc	9		
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	





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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 3 A, T _J = 25 °C	-	1.5	1.7	V
Reverse Current	I _R	V _R = 600 V, T _J = 25 °C	-	-	1	uA
		V _R = 600 V, T _J = 125 °C	ı	-	300	
Reverse Recovery Time	T_RR	I _F = 0.5 A, I _R = 1 A,	-	-	35	ns
		I _{RR} = 0.25 A, T _J = 25 °C				110

NOTES:

- 1. Thermal resistance from junction to ambient length 0.375" (9.5mm)P.C.B.mounted
- 2. Mounted on a FR-4 PCB, single-sided copper, with 100cm² copper pad area





TYPICAL CHARACTERISTIC CURVES

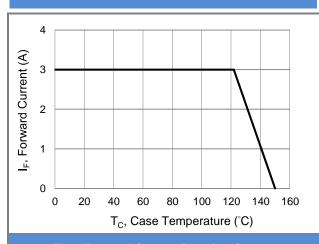


Fig.1 Forward Current Derating Curve

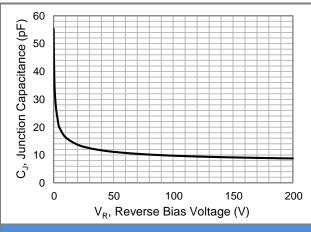


Fig.2 Typical Junction Capacitance

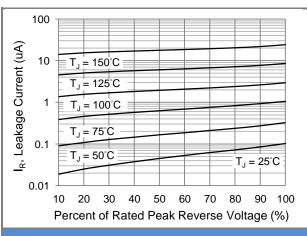


Fig.3 Typical Reverse Characteristics

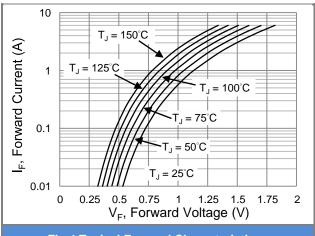
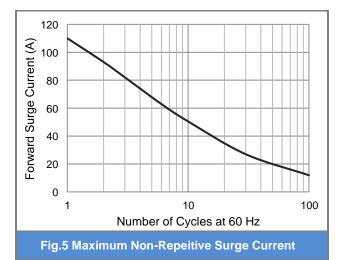


Fig.4 Typical Forward Characteristics



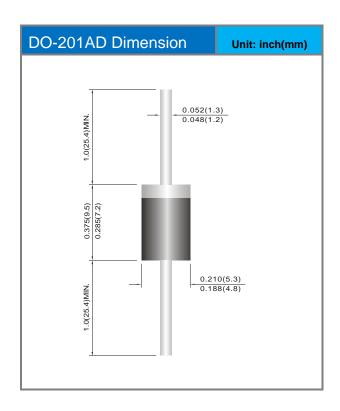




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
ER306_AY_00101	DO-201AD	1250pcs / Ammo	ER306	Halogen free
ER306_B0_00101	DO-201AD	500pcs / Box	ER306	Halogen free
ER306_R2_00101	DO-201AD	1250pcs / 13" reel	ER306	Halogen free

Packaging Information







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