

Super Fast Silicon Rectifiers

Reverse Voltage - 400 V Forward Current - 8.0 A

FEATURES

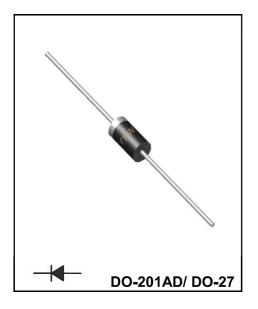
- ♦For surface mounted applications
- ♦Low profile package
- **♦**Open Junction chip
- ♦Ideal for automated placement
- ♦Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

♦Case: DO-201AD/DO-27

♦Terminals: Solderable per MIL-STD-750, Method 2026

♦ Approx. Weight: 0.98g / 0.0345oz



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	SR84E	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	400	V
Maximum RMS voltage	V _{RMS}	280	v
Maximum DC Blocking Voltage	V _{DC}	400	v
Maximum Average Forward Rectified Current at T _c = 100 °C	IF _(AV)	8.0	Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	300.0	Α
Maximum Instantaneous Forward Voltage at 8.0A	V _F	1.10	٧
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Blocking Voltage $T_a=125$ °C	I _R	10 100	μA
Maxinum reverse recovery time ^(Note 1)	Trr	30	nS
Typical Junction Capacitance (Note 2)	C _j	80.0	pF
Typical Thermal Resistance	R _{θJA}	50	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +175	°C

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽²⁾ Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A



Ratings and Characteristic Curves

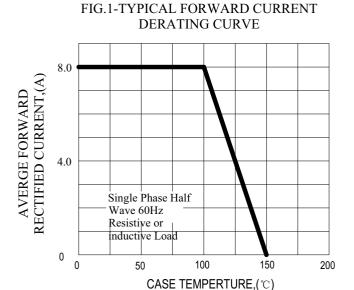


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

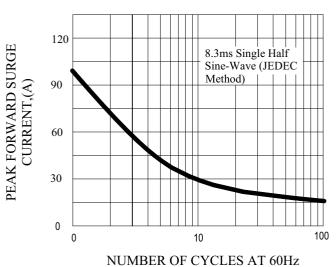
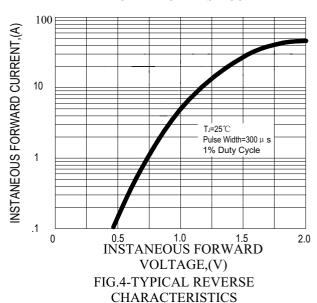


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



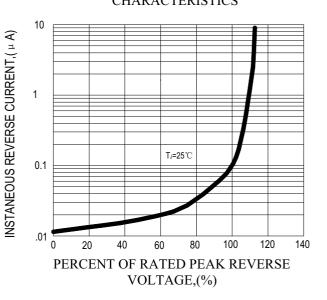
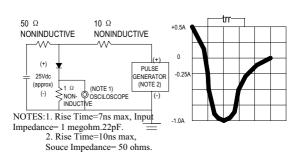


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC



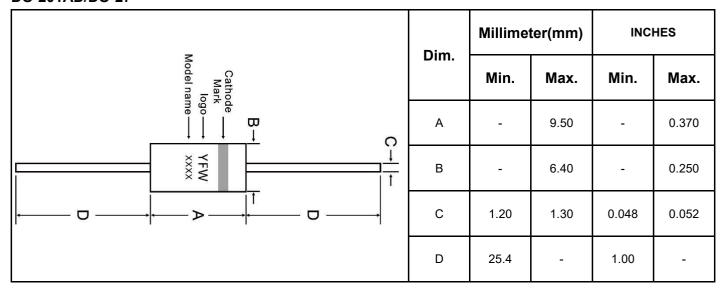


Ordering information

Package	Packing Description	Packing Quantity
DO-201AD/DO-27	bulk	250PCS/500PCS/Inner Box 25000PCS/Carton
	ammo pack	1000PCS/1250PCS/Inner Box 10000PCS/12500PCS/Carton

Package Dimensions

DO-201AD/DO-27





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