

Super Fast Silicon Rectifiers

Reverse Voltage - 800 V Forward Current - 5 A

FEATURES

♦For surface mounted applications

♦Low profile package

♦Ideal for automated placement

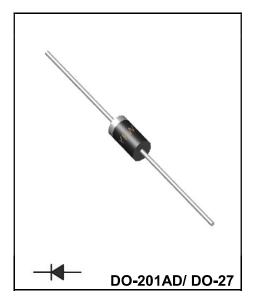
Lead free in comply with EU RoHS 2011/65/EU directives

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	ER508	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	800	V
Maximum RMS voltage	V _{RMS}	560	v
Maximum DC Blocking Voltage	V _{DC}	800	v
Maximum Average Forward Rectified Current at T _c = 100 °C	IF _(AV)	5.0	Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	200.0	Α
Maximum Instantaneous Forward Voltage at 5.0A	V _F	1.85	v
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a =125 °C	I _R	5 50	μΑ
Maxinum reverse recovery time ^(Note 1)	Trr	35	nS
Typical Junction Capacitance (Note 2)	Cj	100.0	pF
Typical Thermal Resistance	R _{θJA}	30.0	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°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. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

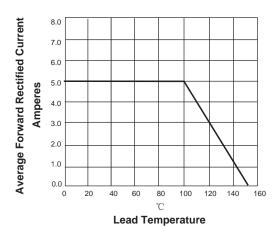


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

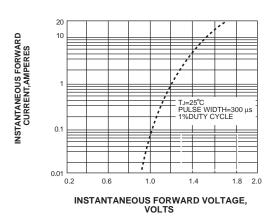


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

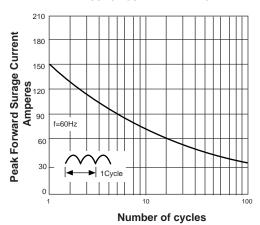
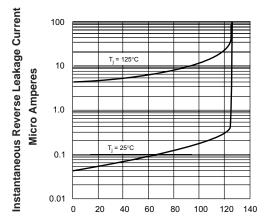


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)

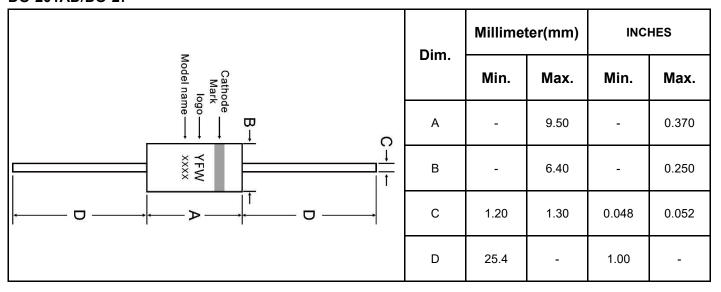


Ordering information

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

Package Dimensions

DO-201AD/DO-27





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