

Schottky Barrier Rectifiers Reverse Voltage - 20 to 40 V

Forward Current - 3 A

FEATURES

♦Guardring for overvoltage protection

♦Low reverse leakage

High forward surge current capability

♦High temperature soldering guaranteed

250°C /10 seconds at terminals

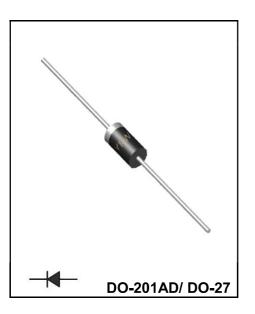
♦Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

♦Case: DO-201AD/ DO-27

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

♦ Approx. Weight: 0.98 g / 0.0345 oz



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	1N5820	1N5821	1N5822	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS voltage	V _{RMS}	14	21	28	٧
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current at T _c = 100 °C	I _{F(AV)}		3.0		Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	70.0			Α
Maximum Instantaneous Forward Voltage at 3.0A	V_{F}	0.475	0.50	0.525	V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	0.5 50		mA	
Typical Thermal Resistance	R _{θJA}	55		℃/W	
Operating junction temperature range	Tj	-55 ~ +125		°C	
Storage Temperature Range	T_{stg}	-55 ~ +150		c	

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



Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

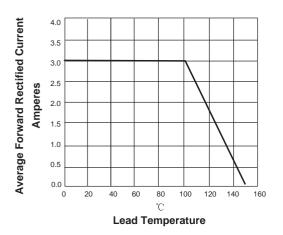


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

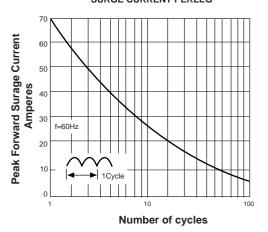


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

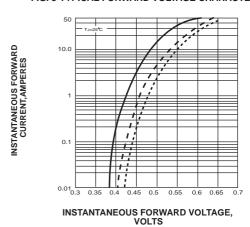
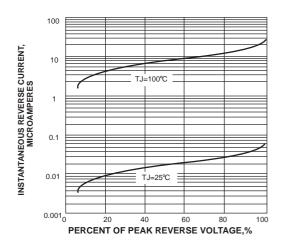


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



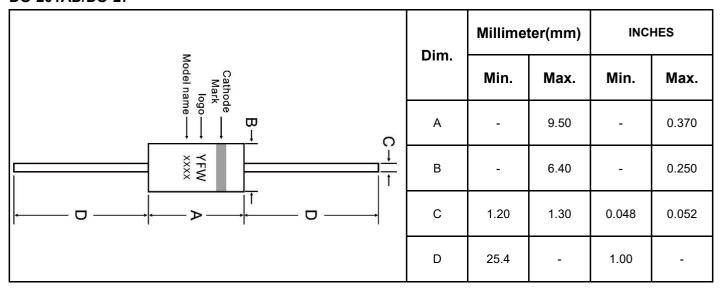


Ordering information

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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