

Schottky Barrier Rectifiers

Reverse Voltage - 45V

Forward Current - 5 A

FEATURES

- ◆The plastic package carries Underwriters Laboratory
Flammability Classification 94V-0
- ◆Low forward voltage drop
- ◆Low reverse leakage
- ◆High forward surge current capability
- ◆High temperature soldering guaranteed
250℃ /10 seconds at terminals



MECHANICAL DATA

- Case : Molded plastic body
- Terminals : Solder plated, solderable per MIL-STD-750,
Method 2026
- Polarity : Polarity symbol marking on body
- Mounting Position : Any
- Weight : 0.0345 ounce, 0.98 grams

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	Value	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	45	v
Maximum RMS voltage	V_{RMS}	31.5	v
Maximum DC blocking voltage	V_{DC}	45	v
Maximum average forward rectified current at $T_L=100\text{ }^{\circ}\text{C}$	$I_{(AV)}$	5	A
Peak forward surge current, 8.3ms single half sine-wave superimpose on rated load	I_{FSM}	120	A
Maximum instantaneous forward voltage at 5.0A	V_F	0.48	v
Maximum Dc reverse current at rated DC blocking voltage	I_R	0.5 50	mA
Typical thermal resistance	R_{qJA}	55	$^{\circ}\text{C}/\text{W}$
Operating junction temperature range	T_J	-55 to +150	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

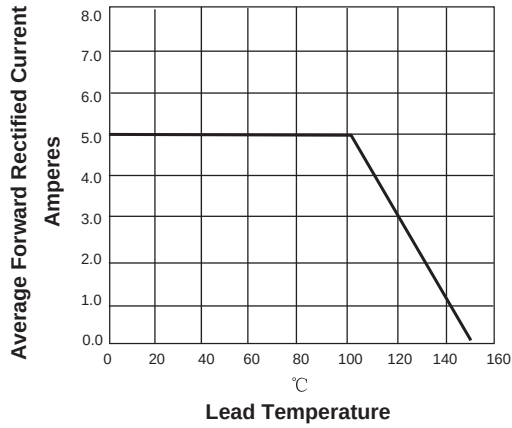


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

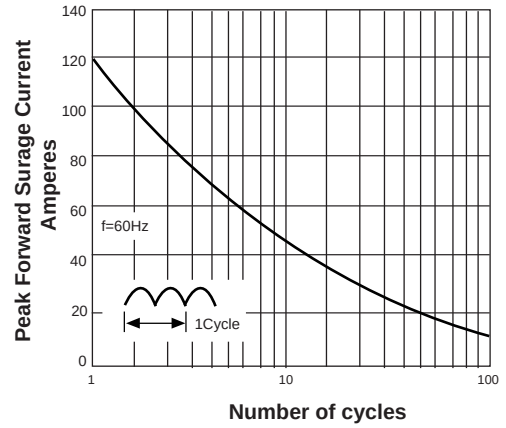


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

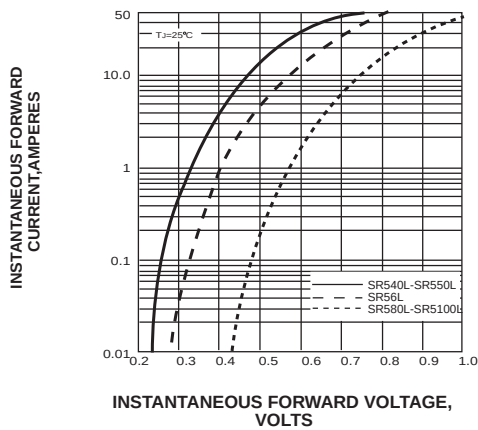
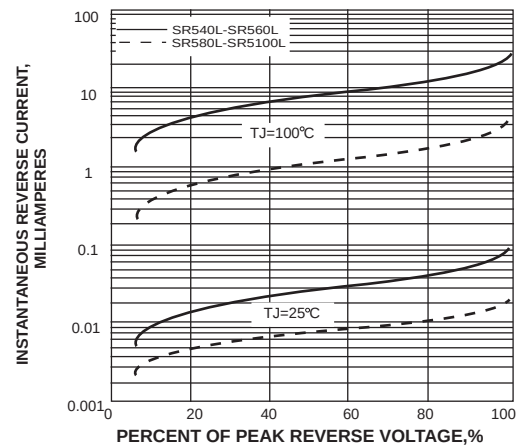


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



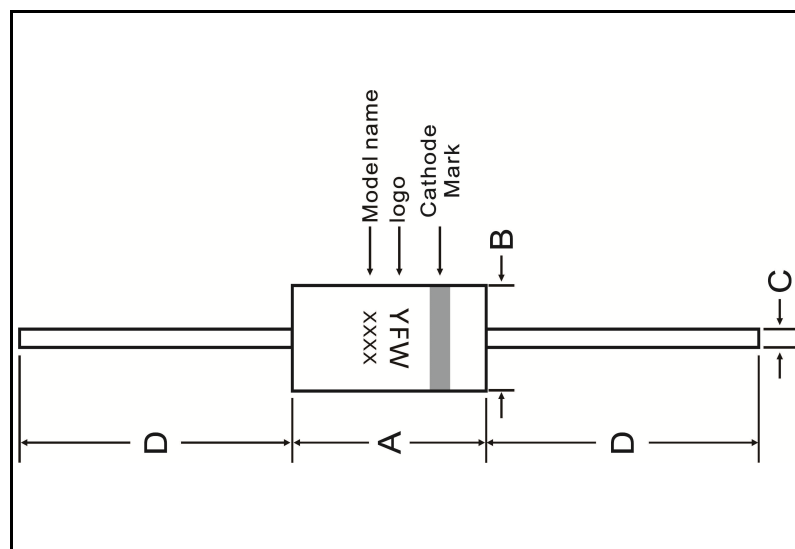
Ordering information

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

Package Dimensions

DO-201AD/DO-27

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	-	9.50	-	0.370
B	-	6.40	-	0.250
C	1.20	1.30	0.048	0.052
D	25.4	-	1.00	-



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