

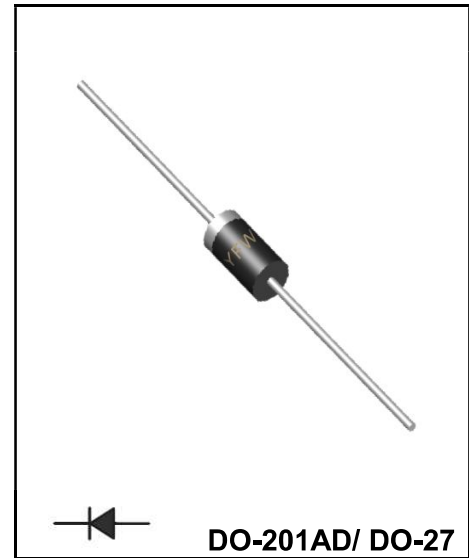
5.0Amp Schottky Barrier Rectifiers

Reverse Voltage - 40V~100V

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°C /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 C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	SR540L	SR545L	SR550L	SR560L	SR580L	SR5100L	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	45	50	60	80	100	v
Maximum RMS voltage	V_{RMS}	28	31.5	35	42	56	70	v
Maximum DC blocking voltage	V_{DC}	40	45	50	60	80	100	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 superimposed on rated load	I_{FSM}	120						A
Maximum instantaneous forward voltage at 5.0A	V_F	0.48			0.55	0.7		v
Maximum Dc reverse current $T_A=25\text{ }^\circ\text{C}$ at rated DC blocking voltage $T_A=125\text{ }^\circ\text{C}$	I_R	0.5 50				0.2 20		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

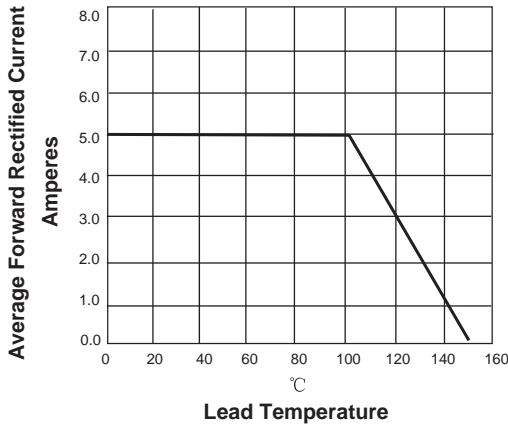


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

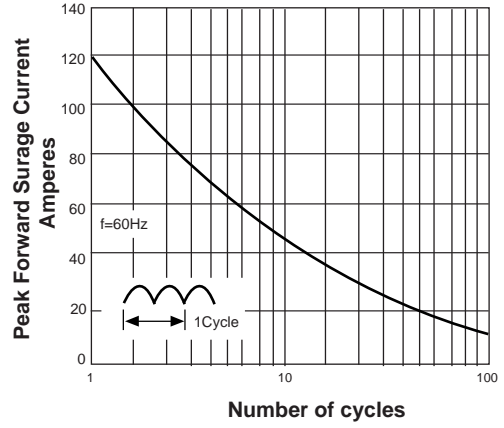


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

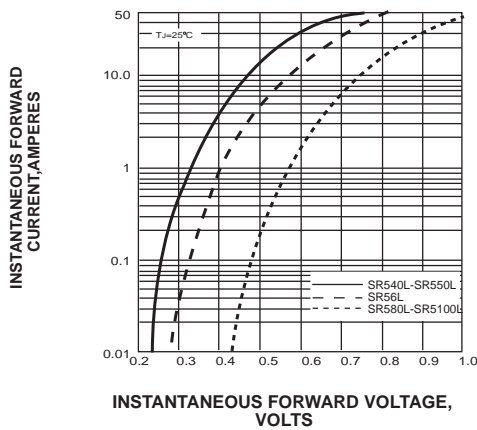
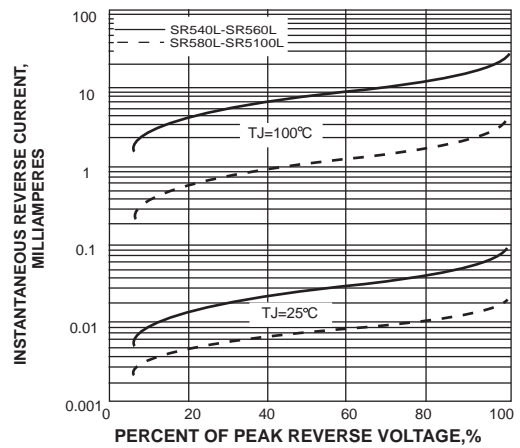


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Ordering information

Package	Packing Description	Packing Quantity
DO-201AD/DO-27	bulk	250PCS/500PCS/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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