

SR1045L THRU SR10150L

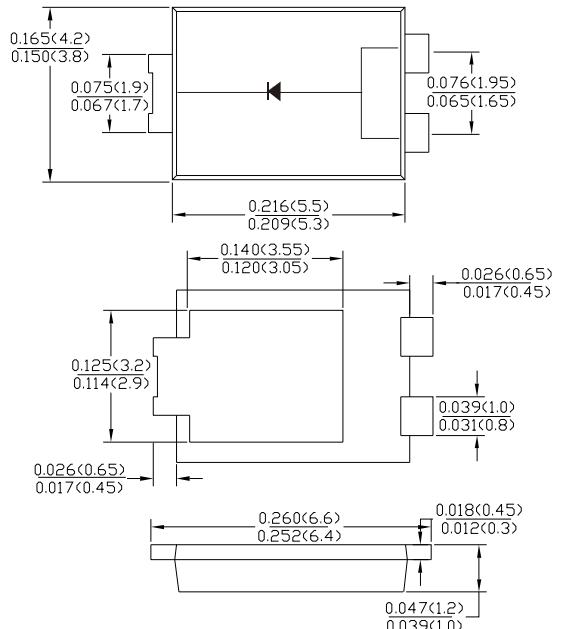
Reverse Voltage - 45 to 150 Volts Forward Current - 10.0 Ampere

Surface Mount Schottky Barrier Rectifiers

Features

- ◆ Schottky Barrier Chip
- High Thermal Reliability
- ◆ Patented Super Barrier Rectifier Technology
- ◆ High Forward Surge Capability
- ◆ Ultra Low Power Loss, High Efficiency
- ◆ Excellent High Temperature Stability
- Plastic material-UL flammability 94V-0

TO-277



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC TO-277 Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.003 ounce, 0.0092 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	SR 1045L	SR 1050L	SR 1060L	SR 1080L	SR 10100L	SR 10150L	UNITS
Marking Code								
Maximum repetitive peak reverse voltage	V _{RMM}	45	50	60	80	100	150	V
Maximum RMS voltage	V _{RMS}	32	35	42	56	70	105	V
Maximum DC blocking voltage	V _{DC}	45	50	60	80	100	150	V
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1) (Note1)	I _(AV)					10.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Note2)	I _{FSM}					275.0		A
Maximum instantaneous forward voltage at 10.0A	V _F	0.42	0.45	0.47	0.75	0.78		V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R				0.3			mA
					15.0			
Typical junction capacitance (NOTE 1)	C _J			80				pF
Typical thermal resistance (NOTE 2)	R _{θJA}			15.0				°C/W
Operating junction and storage	T _J			-65 to +150				°C
Storage temperature range	T _{STG}			-65 to +150				°C

Note:1.Valid Provided that are kept at ambient temperature at a distance of 9.5mm from the case.

2.Fr-4pcb.2oz.Copper,minimum recommend pad layout .18.8mm×14.4mm.Anode pad dimensions 5.6mm×14.4mm.

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Ratings And Characteristic Curves

Fig.1 - Forward Current Derating Curve

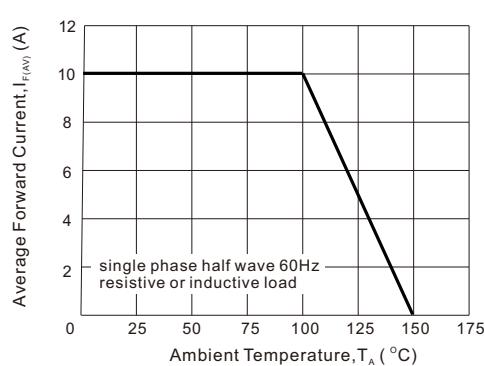


Fig.3: Surge Forward Current Capability

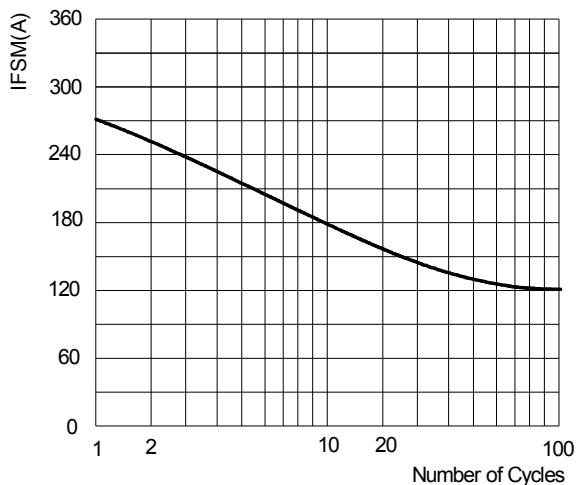


Fig.2 :Instantaneous Forward Voltage

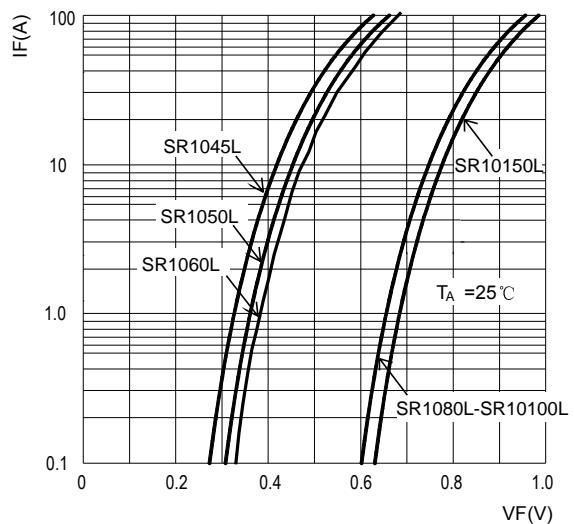


Fig.4: Typical Reverse Characteristics

