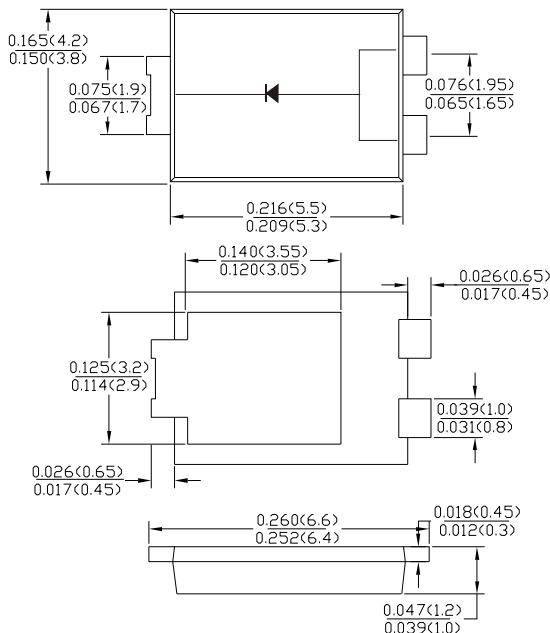




Surface Mount Schottky Barrier Rectifiers

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-277ROHS
COMPLIANT

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 0540L	SR 0545L	SR 0550L	SR 0560L	SR 0580L	SR 05100L	SR 05150L	SR 05200L	UNITS		
Marking Code		MDD SR0540L	MDD SR0545L	MDD SR0550L	MDD SR0560L	MDD SR0580L	MDD SR05100L	MDD SR05150L	MDD SR05200L			
Maximum repetitive peak reverse voltage	V _{RMM}	40	45	50	60	80	100	150	500	V		
Maximum RMS voltage	V _{RMS}	28	32	35	42	56	70	105	40	V		
Maximum DC blocking voltage	V _{DC}	40	45	50	60	80	100	150	200	V		
Maximum average forward rectified current 0.375" (9.5mm) lead length (see fig.1) (Note1)	I _(AV)	5.0								A		
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Note2)	I _{FSM}	120								A		
Maximum instantaneous forward voltage at 10.0A	V _F	0.55	0.70	0.85	0.90	0.92				V		
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.3		0.05						mA		
		15.0		5								
Typical thermal resistance	R _{θJA}	80.0								°C/W		
Operating junction and storage	T _J	-55 to +150								°C		
Storage temperature range	T _{STG}	-55 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.



SR0540L THRU SR05200L

Reverse Voltage - 40 to 200 Volts Forward Current - 5.0 Ampere

Ratings And Characteristic Curves

Fig.1 - Forward Current Derating Curve

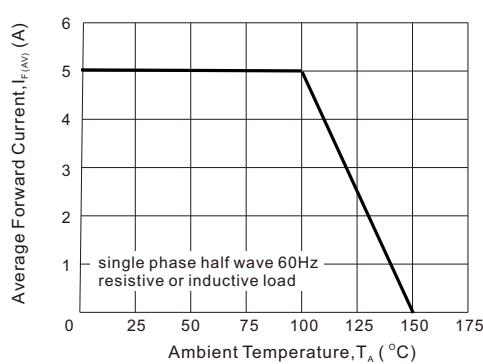


Fig2 : Instantaneous Forward Voltage

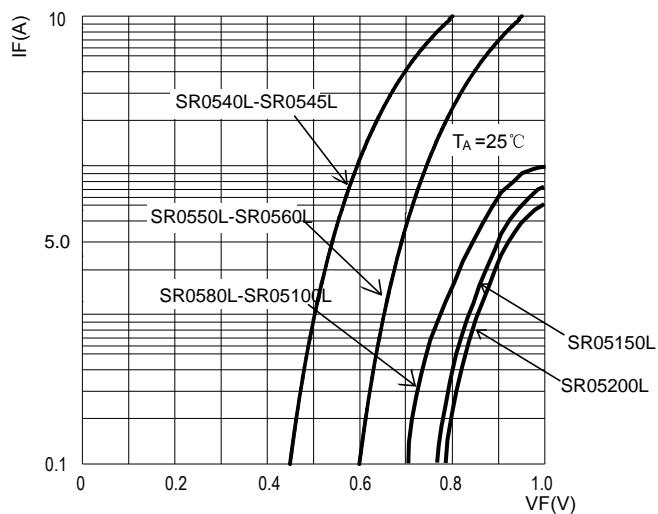


Fig3: Surge Forward Current Capability

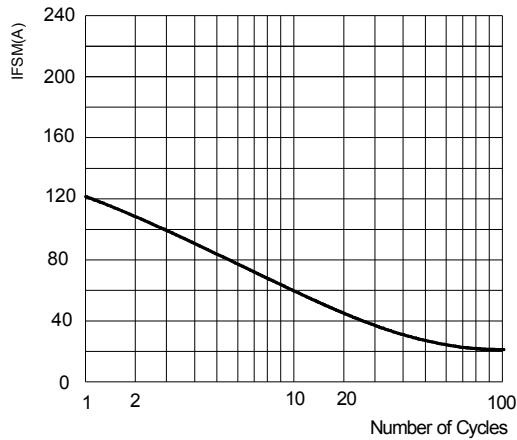
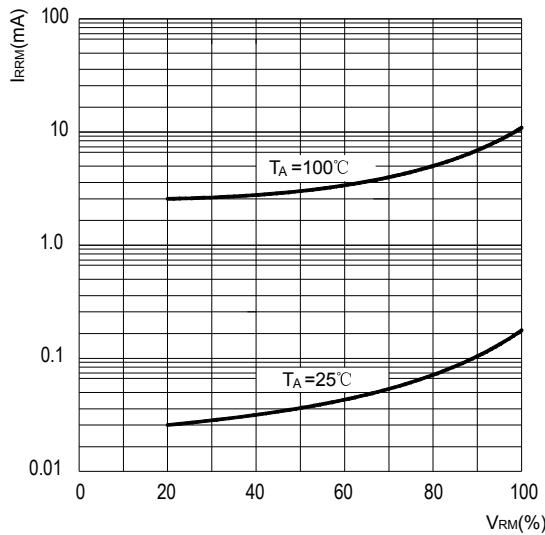


Fig4: Typical Reverse Characteristics



The curve above is for reference only.