

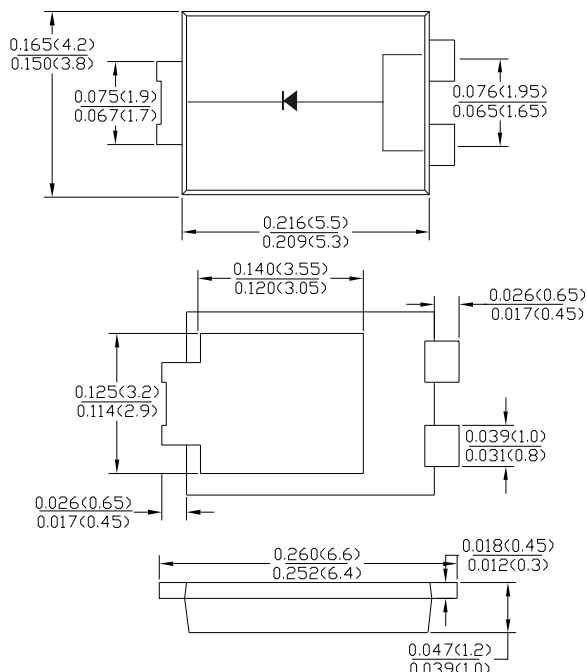
Features

- 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

Mechanical Data

- Case: TO-277, molded plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS/Lead Free Version

TO-277



Dimensions inches and (milimeters)

Maximum Ratings and Electrical Characteristics @T_A =25 °C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	SR 0540	SR 0545	SR 0550	SR 0560	SR 0580	SR 05100	SR 05150	SR 05200	Unit
Peak Repetitive Reverse Voltage	V _{RRM}									V
Working Peak Reverse Voltage	V _{RWM}	40	45	50	60	80	100	150	200	V
DC blocking voltage	V _{DC}									V
RMS Rectified Voltage	V _{R(RMS)}	28	32	35	42	56	70	105	140	V
Average Rectified Output Current (Note1)	I _o	5.0								A
Non-Repetitive Peak Forward Surge8.3ms Single Half Sine-Wave Superimposed on rated load(JEDEC Method) (Note2)	I _{FSM}	120								A
Forward Voltage Drop T _A =25℃ @IF=5A	V _{FM}	0.55		0.70		0.85		0.90	0.92	V
Peak Reverse Curent T _A =25℃ At Rated DC Blocking Voltage T _A =100℃	I _R	0.3 15				0.05 5				mA
Typical Thermal Resistance Junctionto Ambient	R _{θJA} R _{θJL}	80 15								℃/W
Operating junction temperature range	T _J	-55 to +150								℃
storage temperature range	T _{STG}	-55 to +150								℃

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

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

Fig.1 - Forward Current Derating Curve

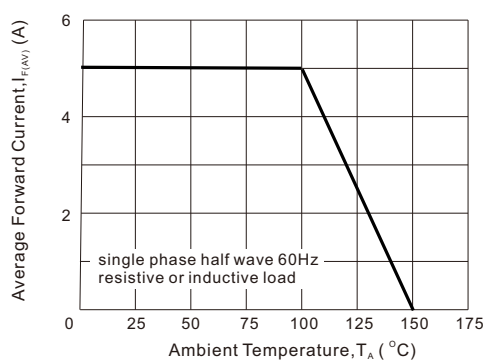


Fig2 : Instantaneous Forward Voltage

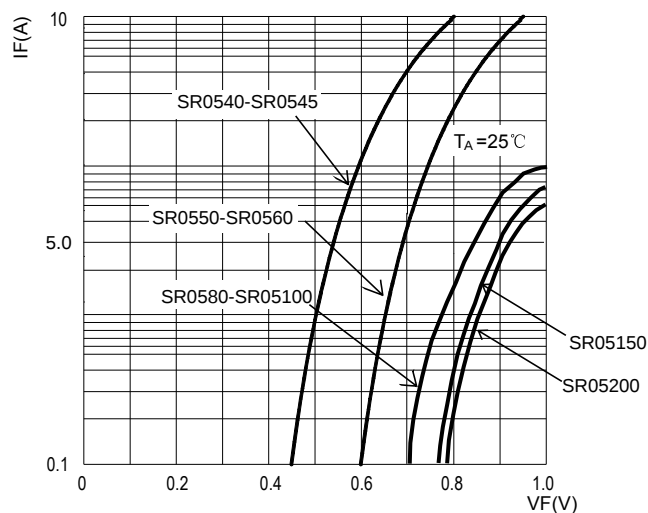


Fig3: Surge Forward Current Capability

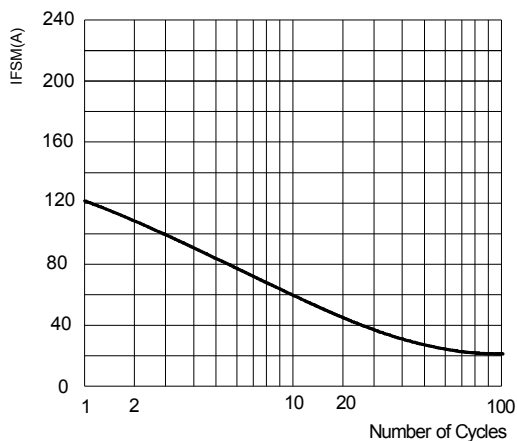


Fig4: Typical Reverse Characteristics

