

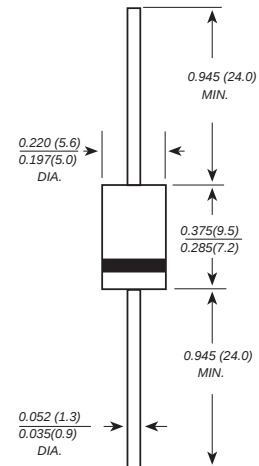
**Features**

- $I_{F(AV)}$ 5A
- V_{RRM} 20V-100V
- High surge current capability
- Polarity: Color band denotes cathode

Applications

- Rectifier

DO-27



Dimensions in inches and (millimeters)

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	SR5						
				20	30	40	50	60	80	100
Repetitive Peak Reverse Voltage	V_{RRM}	V		20	30	40	50	60	80	100
Maximum RMS Voltage	V_{RMS}	V		14	21	28	35	42	56	70
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, TL(Fig.1)	5.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave , 1 cycle , $T_a = 25^{\circ}\text{C}$	120						
Junction Temperature	T_J	$^{\circ}\text{C}$		-55~+150						
Storage Temperature	T_{STG}	$^{\circ}\text{C}$		-55 ~ +150						

Electrical Characteristics (T=25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition		SR5						
					20	30	40	50	60	80	100
Peak Forward Voltage	V _{FM}	V	I _{FM} =5.0A		0.55		0.7			0.85	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃	0.1						
	T _a =125℃			10							
Thermal Resistance(Typical)	R _{θJ-A}	℃ /W	Between junction and ambient		25						
	R _{θJ-L}		Between junction and lead		8						

Notes:

- 1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

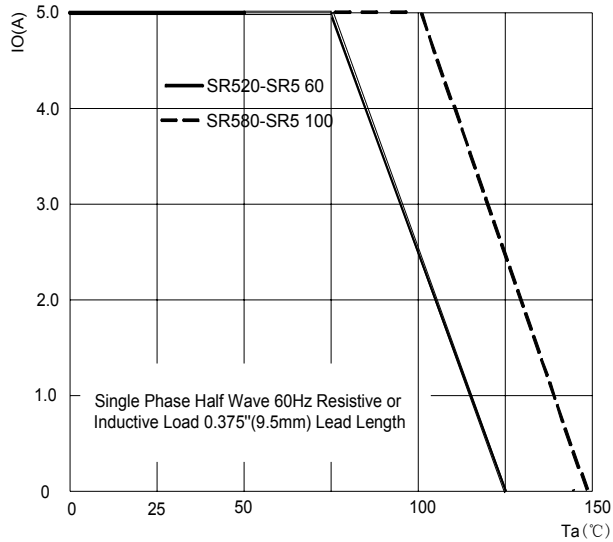


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

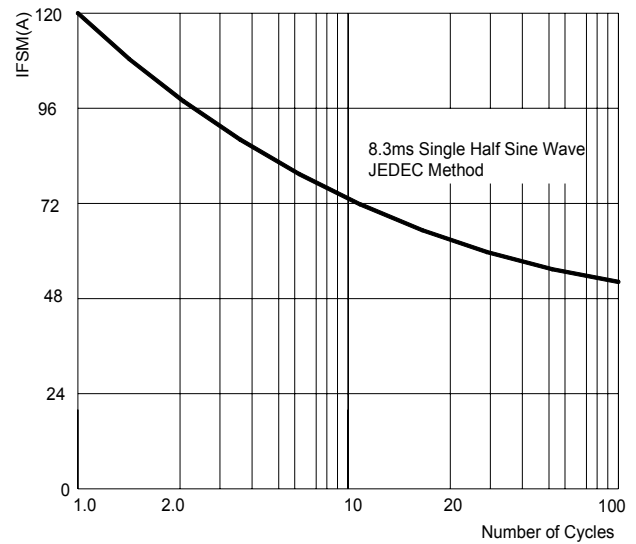


FIG.3: TYPICAL FORWARD CHARACTERISTICS

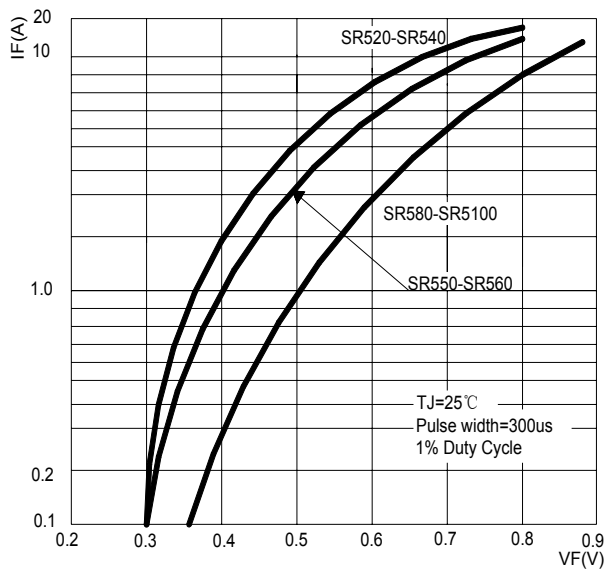


FIG.4: TYPICAL REVERSE CHARACTERISTICS

