



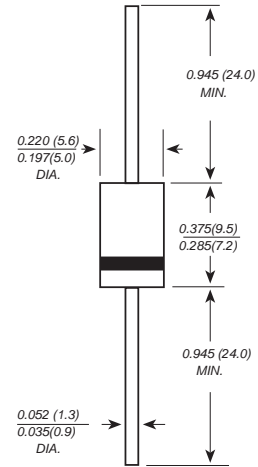
Features

- $I_{F(AV)}$ 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, $T_a=25^{\circ}C$	120						
Junction Temperature	T_J	$^{\circ}C$		-55~+150						
Storage Temperature	T_{STG}	$^{\circ}C$		-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	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$						
	I_{RRM2}			$T_a=125^{\circ}C$						
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient	25						
	$R_{\theta J-L}$		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

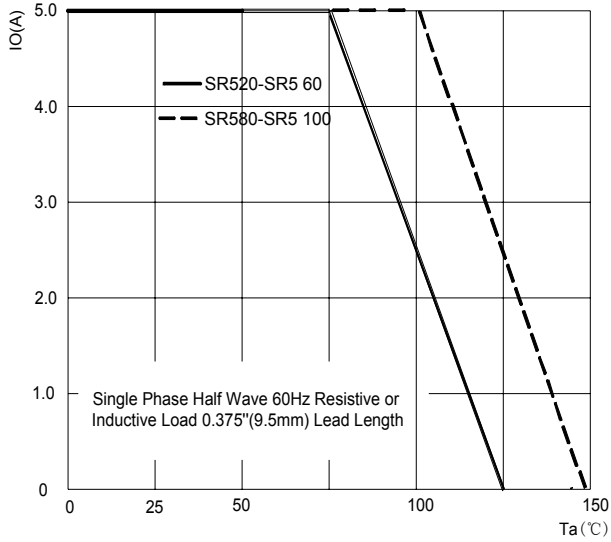


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

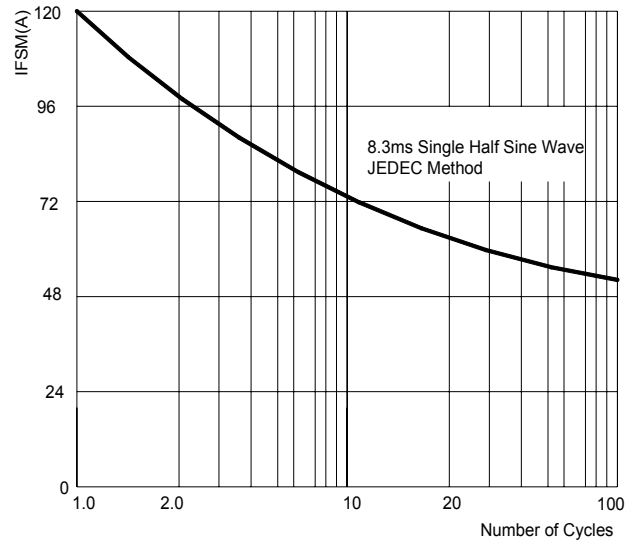


FIG.3: TYPICAL FORWARD CHARACTERISTICS

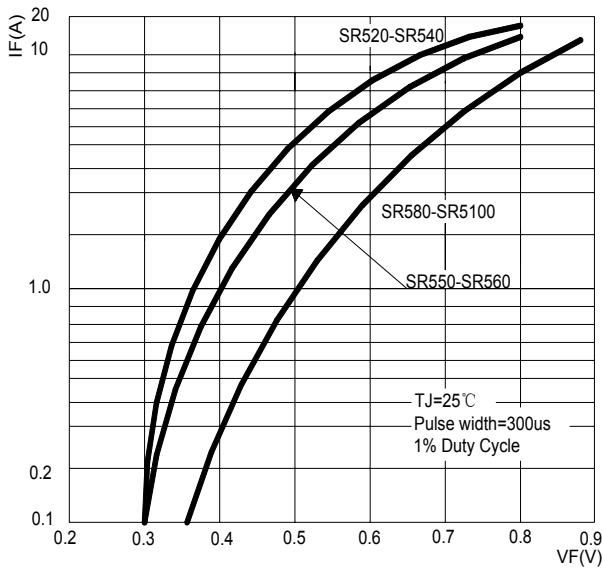
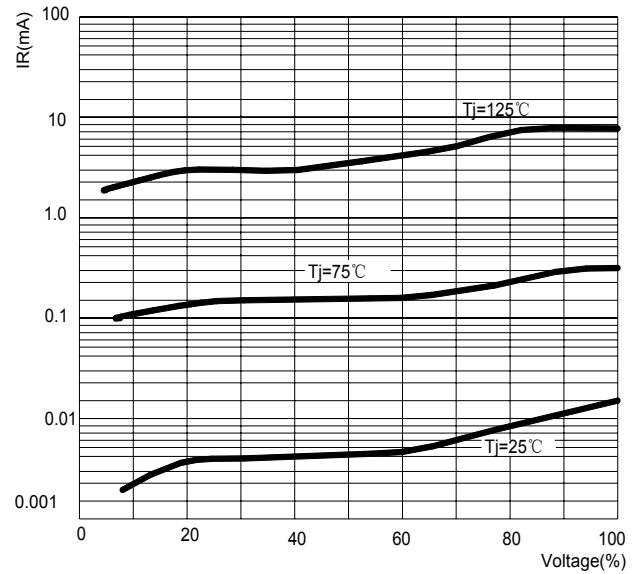


FIG.4: TYPICAL REVERSE CHARACTERISTICS



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