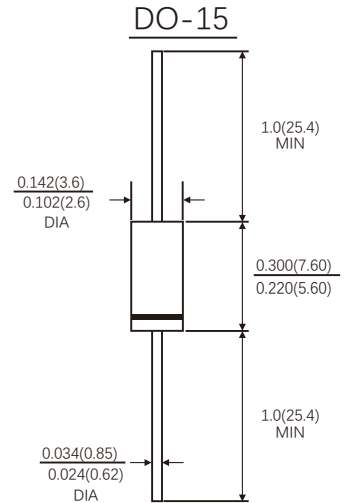
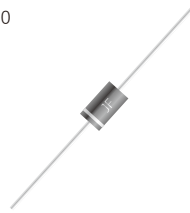


### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



### MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014ounce, 0.39 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

Parameters	Symbols	SR 220	SR 230	SR 240	SR 260	SR 2100	SR 2150	SR 2200	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	60	100	150	200	Volts
Maximum RMS voltage	$V_{RMS}$	14	21	28	42	71	105	140	Volts
Maximum DC blocking voltage	$V_{DC}$	20	30	40	60	100	150	200	Volts
Maximum average forward rectified current	$I_{(AV)}$	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50.0							Amps
Maximum instantaneous forward voltage at 2.0 A(Note 1)	$V_F$	0.55		0.70		0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_J=25^{\circ}C$	100				20			$\mu A$
	$T_J=100^{\circ}C$	5.0				-			$m A$
	$T_J=125^{\circ}C$	-				3.0			
Typical junction capacitance(Note 3)	$C_J$	105		80		60	40		$p F$
Typical thermal resistance(Note 2)	Junction-Abient	45.0							$^{\circ}C/W$
	Junction-Lead	14.0							
Operating junction temperature range	$T_J$	-55 to+150							$^{\circ}C$
Storage temperature range	$T_{STG}$	-55 to+150							$^{\circ}C$

Notes: 1.Pulse test: 300 $\mu s$  pulse width,1% duty cycle  
2.Thermal resistance from junction to lead, and/or to ambient P.C.B. mounted with 0.375"(9.5mm) lead length with 1.5 X1.5"(38X38mm)copper pads  
3.Measured at 1.0MHz and reverse voltage of 4.0 volts

FIG.1-FORWARD CURRENT DERATING CURVE

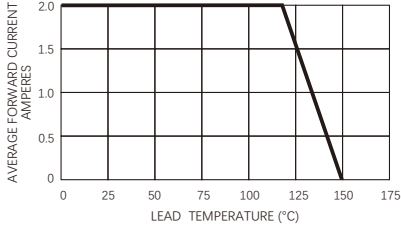


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

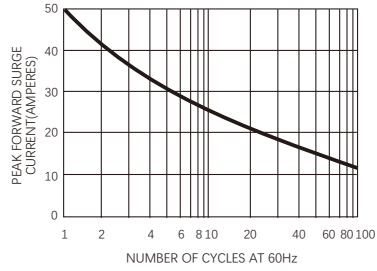


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

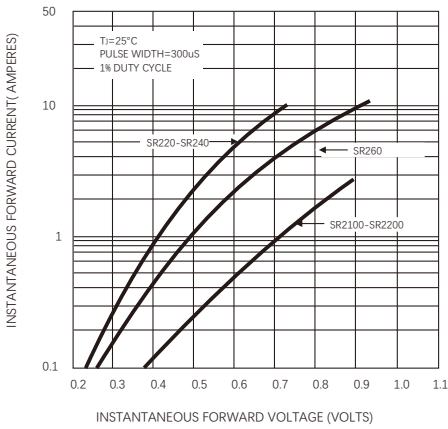


FIG.4-TYPICAL REVERSE CHARACTERISTICS

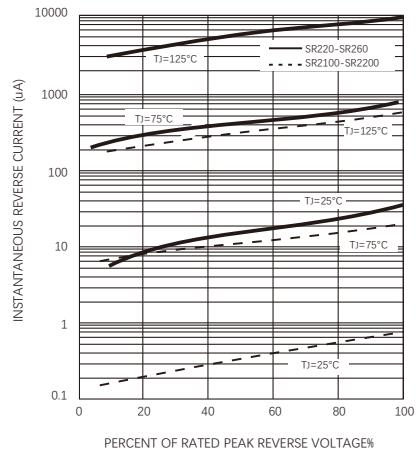
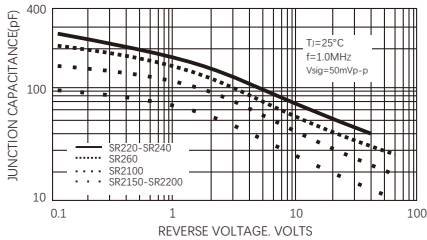


FIG.5-TYPICAL JUNCTION CAPACITANCE



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