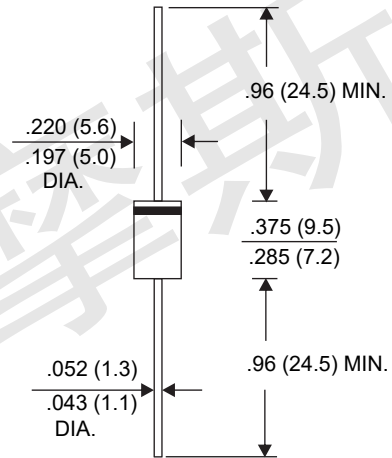


Features And Mechanical Data

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for over voltage 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:260°C MAX at 10 seconds, per JESD 22-B106 or MIL-STD-750,method 2026
- Case: JEDEC D0-27(D0-201AD) molded plastic body

DO-27(D0-201AD)



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, derate current by 20%.

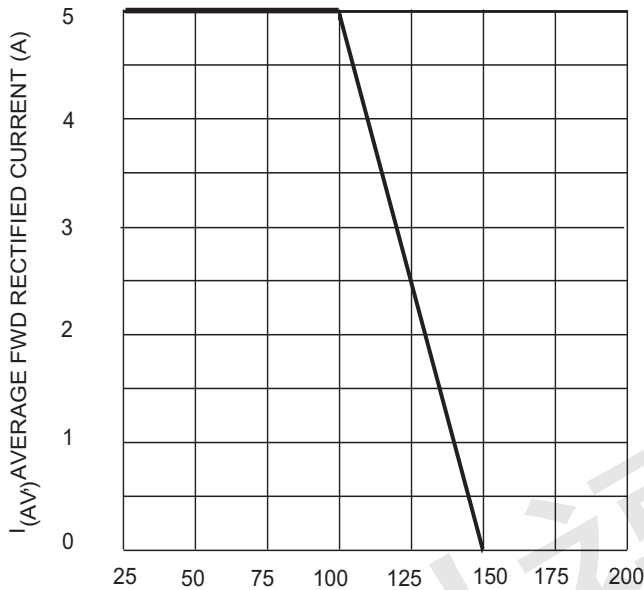
	Symbols	Min.	Typ.	Max.	Units
Type number		SR5200A			
Marking code		SR5200A			
Maximum recurrent peak reverse voltage	V_{RRM}	225	-	-	Volts
Maximum rms voltage	V_{RMS}	157	-	-	Volts
Maximum dc blocking voltage	V_{DC}	225	-	-	Volts
Maximum average forward rectified current. Lead length @ta(fig 1)	I_{AV}	-	-	5.0	Amp
Peak Forward Surge Current, 8.3 ms single half- sine-wave Superimposed on rated load (JEDEC method) (Rating of per diode)	I_{FSM}	-	-	120	Amp
Maximum instantaneous forward voltage at I_{AV}	@ TA=25°C	V_F		0.85	Volts
	@ TA=125°C		0.52		
Maximum DC reverse current at rated DC blocking voltage per	Tj=25°C	I_R	-	12	uA
	Tj=100°C		-	15	mA
Typical thermal resistance Between junction and lead	$R_{\theta JL}$	-	20	-	°C/W
Junction temperature	T_J	-40 to +150			°C
Storage temperature range	T_{STG}	-40 to +150			°C

※ This product The above data sheet typical data meet the Mentioned standards,designers for reference only

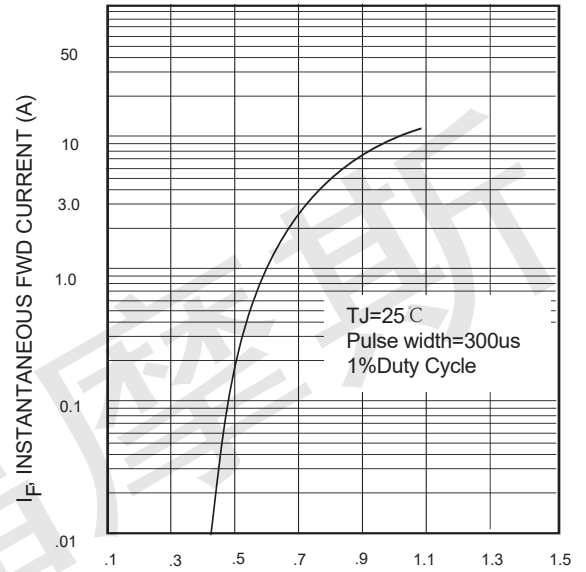
Ordering Information (Example)

Prefered P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
DO-27	T1	about 1.05	1250	1250	12500	Tape
DO-201AD	B1	about 1.05	250	250	12500	Bulk
DO-201AE	B2	about 1.05	250	250	10000	Bulk

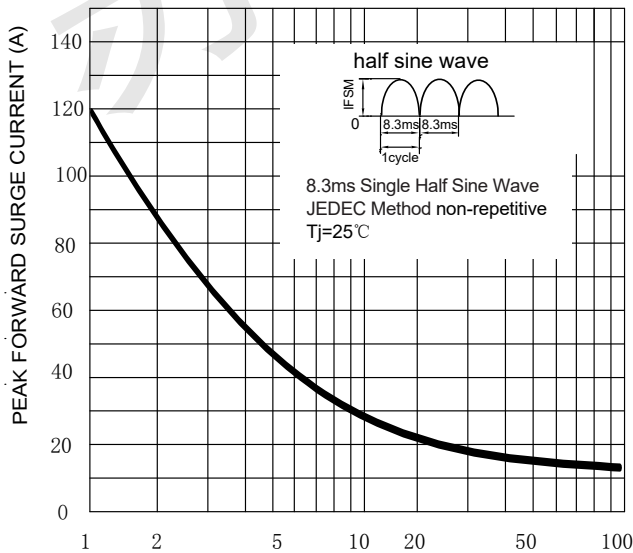
RATINGS AND CHARACTERISTIC CURVES



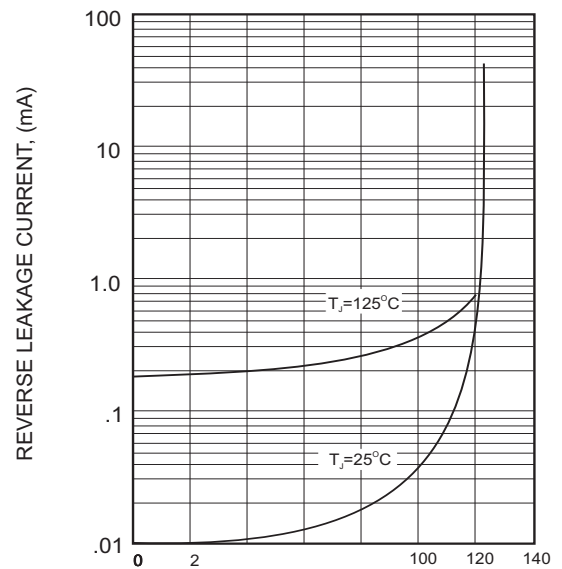
TC,CASE TEMPERATURE (°C)
Fig. 1 Forward Derating Curve



V_F INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Peak Forward Surge Current



PERCENT OF RATED PEAK REVERSE VOLTAGE, V_{RM} (%)
Fig. 4-Typical Reverse Characteristics