

Plastic Schottky Barrier Rectifier

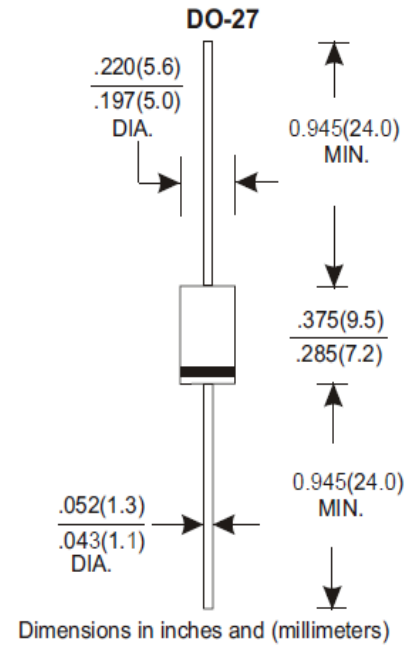
Features

- Metal silicon rectifie, majority carrier conduction
- Guard ring for transient protection
- Low pwer loss, high efficiency
- High current capability low VF
- High surge capacity
- Plastic package has UL flammability classification 94 V-0

Mechanical Data

- Cases: JEDEC R-6 molded plastic
- Polarity: Color band cenotes cathode
- Weight: 0.07 ounces 2.1 grams
- Mounting position: Any

Maximum Average Forward Rectified Current



Maximum Ratings & 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	SR10100	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum RMS voltage	$V_{R(RMS)}$	70	V
Maximum DC blocking voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	10	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Maximum forward voltage @IF = 10A	V_F	0.85	V
Maximum reverse current @TA = 25°C @TA = 100°C	I_R	0.5 50	mA
Typical thermal resistance	$R_{\theta JA}$	3.0	°C/W
Storage temperature range	T_{STG}	-55 --- +150	°C
Junction temperature range at reduced reverse voltage in DC forward mode	T_j	-55 --- +150	°C