

PLASTIC SILICON RECTIFIERS

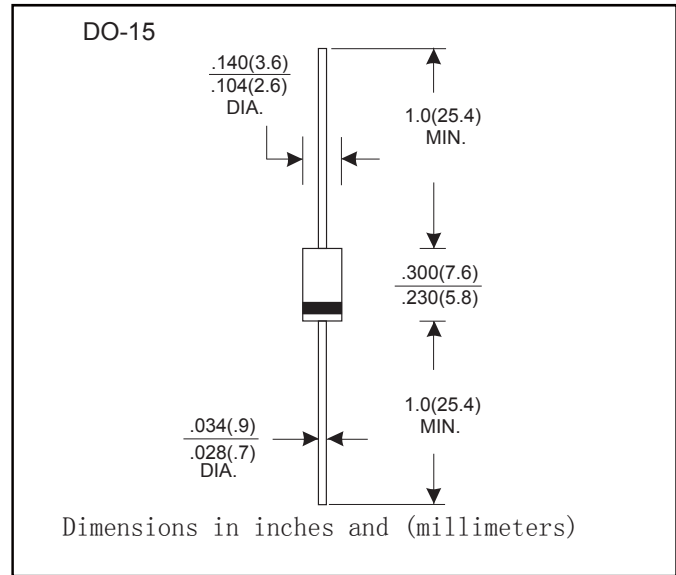
VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 1.5 A

FEATURES

- Low Cost
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Fast Switching Speed For High Efficiency

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014 ounce, 0.33 gram



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

TYPE NUMBER	Symbols	Units	FR201	FR202	FR203	FR204	FR205	FR206	FR207
Maximum repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking voltage	V_{DC}	V	50	100	200	400	600	800	1000
Maximum average forward rectified current 9.5mm lead length at $T_A=55^\circ\text{C}$	$I_{F(AV)}$	A	2.0						
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load (JEDEC method)	I_{FSM}	A	70						
Operating junction temperature range	T_J	$^\circ\text{C}$	-65to+125						
Storage temperature range	T_{stg}	$^\circ\text{C}$	-65to+150						
Maximum instantaneous forward voltage at 2.0A	V_F	V	1.3						
Maximum DC reverse current at rated DC blocking voltage $T_a=25^\circ\text{C}$	I_{R1}	μA	5.0						
$T_a=100^\circ\text{C}$	I_{R2}	μA	100.0						
Maximum reverse recovery time (test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $IRR=0.25\text{A}$)	T_{rr}	nS	150			250		500	