鲁晶®

FR201-------FR207

PLASTIC SILICON RECTIFIERS

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

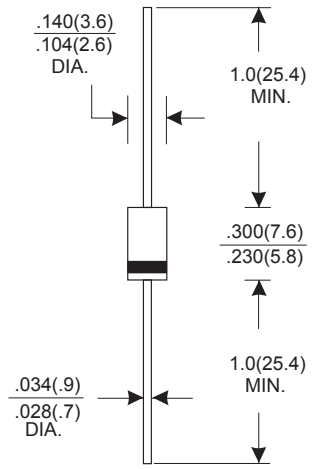
FEATURES

- ●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:0.014ounce,0.33 gram

DO-15



Dimensions in inches and (millimeters)

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℃	$I_{F(AV)}$	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	℃	-65to+125						
Storage temperature range	T_{stg}	℃	-65to+150						
Maximum instantaneous forward voltage at 2.0A	V_F	V	1.3						
Maximum DC reverse current at rated DC blocking voltage Ta=25℃	I_{R1}	μA	5.0						
Maximum DC reverse current at rated DC blocking voltage Ta=100℃	I_{R2}	μA	100.0						
Maximum reverse recovery time (test conditions:IF=0.5A,IR=1.0A,IRR=0.25A)	T_{rr}	nS	150				250	500	