

## Fast Recovery Rectifiers

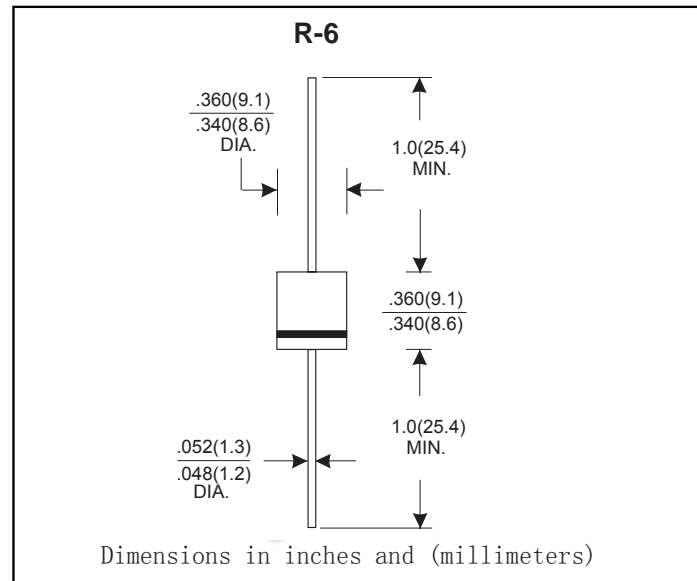
VOLTAGE RANGE: 50 --- 1000 V  
CURRENT: 6.0 A

### FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

### MECHANICAL DATA

- Case style: R-6 plastic molded
- Terminals: Lead solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any



## 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	FR 601	FR 602	FR 603	FR 604	FR 605	FR 606	FR 607
Maximum repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking voltage	VDC	V	50	100	200	400	600	800	1000
Maximum average forward rectified current 9.5mm lead length at TA=55°C	IF(AV)	A	6.0						
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load (JEDEC method)	IFSM	A	300						
Operating junction temperature range	TJ	°C	-65to+125						
Storage temperature range	Tstg	°C	-65to+150						
Maximum instantaneous forward voltage at 6.0A	VF	V	1.3						
Maximum DC reverse current at rated DC blocking voltage Ta=25°C	IR1	µA	10.0						
Ta=100°C	IR2	µA	200.0						
Maximum reverse recovery time (test conditions: IF=0.5A, IR=1.0A, IRR=0.25A)	TRR	nS	150			250		500	