FR101 --FR107

PLASTIC SILICON RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 1.0 A

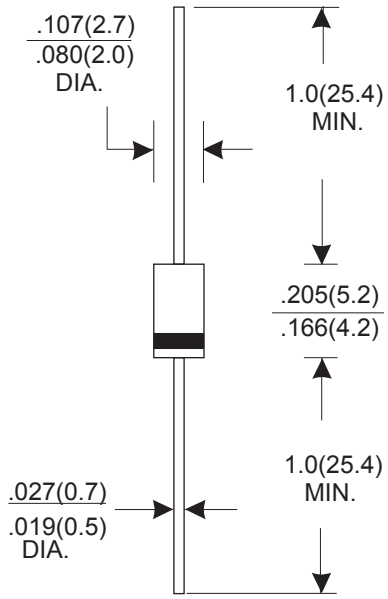
FEATURES

- Low cost construction
- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds，0.375″ （9.5mm）lead length at 5 lbs (2.3kg)tension

MECHANICAL DATA

- Case:transfer molded plastic
- Epoxy:UL94V-0 rate flame retardant
- Polarity:Color band denotes cathode end.
- Lead: Plated axial lead,solderable per MIL-STD-202E method 208c
- Mounting position:Any

DO-41



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%.

		SYMBOLS	FR101	FR102	FR103	FR104	FR105	FR106	FR107	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Average Forward Current TJ=90℃		IF(AV)	1.0							Amps
Peak Forward Surge Current 8.3ms, half sine		IFSM	30							Amps
Maximum Instantaneous Forward Voltage IFM=1.0A TJ=25℃		VF	1.3							Volts
Maximum DCReverse Current at rated DC blocking voltage	TA=25℃	IR	5.0							μA
	TA=100℃		100							
Maximum reverse recovery time at IF=0.5A IR=1.0A, IRR=0.25A		trr,	150				250	500		ns
Typical Junction Capacitance		CJ	15							PF
Typical thermal resistance		RΘJA	50							℃/W
Operating junction and storage temperature range		TJ Tstg	-65to+150							℃

Note: 1.Measyred at 1.0MHZ and applied reverse voltage of 4.0Volts

2. Thermal Resistance from Junction to Ambient at 0.375″ （9.5mm）lead length, P,C,board mounted.

3. Reverse Recovery Test Condition:IF=0.5A,IR=1.0A,TRR=0.25A