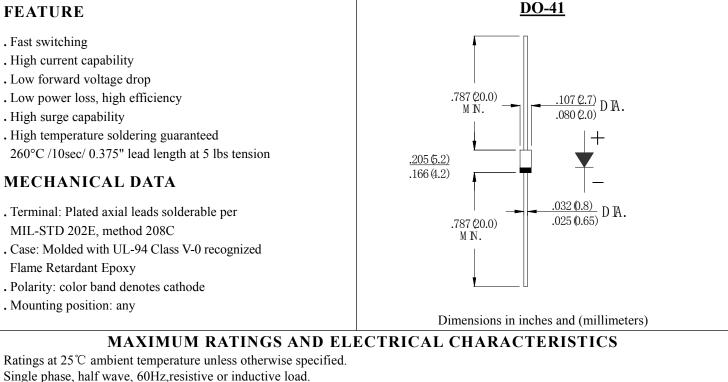


## **FR101 THRU FR107**

**1.0AMP. FAST RECOVERY RECTIFIERS** 

## **FEATURE**



For capacitive load, derate current by 20%

Type Number	SYMBOL	FR101	FR102	FR103	FR104	FR105	FR106	FR107	units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_A = 55^{\circ}C$	I <sub>F(AV)</sub>	1.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		30.0							А
Maximum Instantaneous forward Voltage at 1.0A DC	V <sub>F</sub>	1.3							v
Maximum DC Reverse Current $@T_A=25^{\circ}C$ at rated DC blocking voltage $@T_A=100^{\circ}C$	IR	5.0 100.0							μΑ
Maximum Reverse Recovery Time (Note 1)	trr	150 250 500				nS			
Typical Junction Capacitance (Note 2)	CJ	15							pF
Typical Thermal Resistance (Note 3)	R <sub>(JA)</sub>	75							°C/W
Storage Temperature	T <sub>STG</sub>	-55 to +150							°C
Operation Junction Temperature	TJ	-55 to +150							°C

## Note:

1. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

3. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C. Board Mounted.