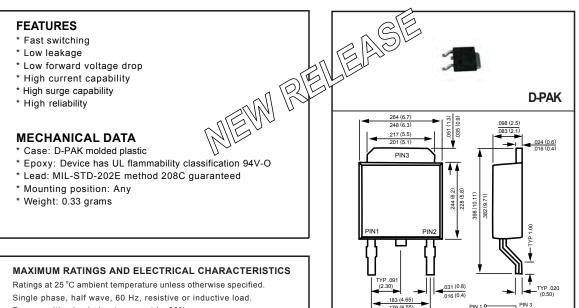




FAST RECOVERY GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes



For capacitive load, derate current by 20%.



PIN 2

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

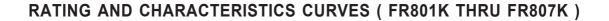
RATINGS	SYMBOL	FR801K	FR802K	FR803K	FR804K	FR805K	FR806K	FR807K	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A = 75 °C	IO	8.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200							Amps
Turical Thormal Decisionae (Note 1)	R _{θJC}	3							°C/W
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	16							
Typical Junction Capacitance (Note 2)	CJ	50							pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150						۰C	

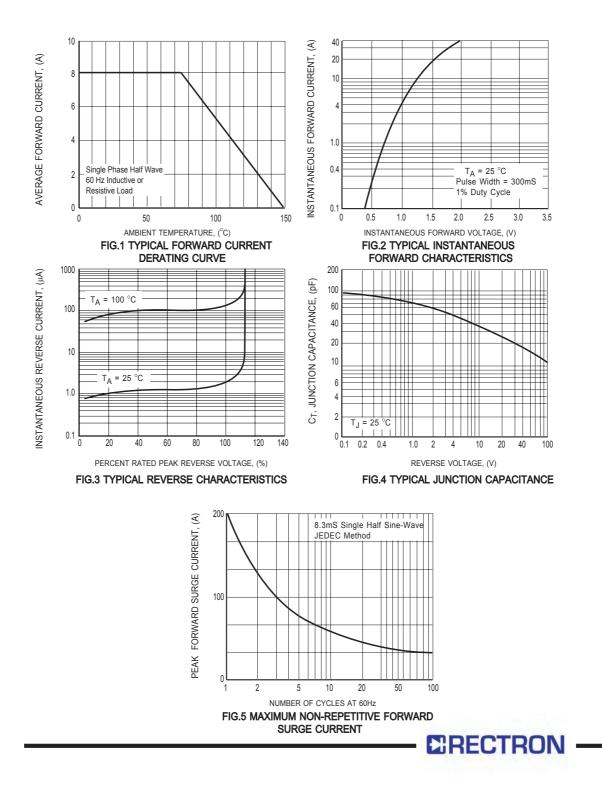
ELECTRICAL CHARACTERISTICS (@T_A=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	FR801K	FR802K	FR803K	FR804K	FR805K	FR806K	FR807K	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	- I _R	2							uAmps
	@T _A = 100°C		150							
Maximum Reverse Recovery Time (Note 3)		trr	150			250	50	00	nSec	
NOTES: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.								2006-12		

NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.

Inermain Resistance : Heat-sink case mounted or in PCB mounded or in PCB mounded at 1 MHz and applied reverse voltage of 4.0 volts.
Test conditions: I_F = 0.5A, I_R = -0.1A, I_RR=-0.25A.
"Fully ROHS compliant", "100% Sn plating (Pb-free)".
Suffix "R" for Reverse Polarity.
Suffix "S" for D2-PAK Pkg.





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