

FAST RECOVERY RECTIFIERS		REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 2.0 Amperes								
FEATURES ● Fast switching for high efficiency ● Low cost ● Diffused junction ● Low reverse leakage current ● Low forward voltage drop ● High current capability ● The plastic material carries UL recognition 94V-0 MECHANICAL DATA ● Case: JEDEC DO-15 molded plastic ● Polarity: Color band denotes cathode ● Weight: 0.015 ounces , 0.4 grams ● Mounting position: Any		DO-15 Dimensions in inches and (millimeters)								
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20%										
CHARACTERISTICS		SYMBOL	FR201	FR202	FR203	FR204	FR205	FR206	FR207	UNIT
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =50 °C		I _(AV)	2.0							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)		I _{FSM}	70							A
Peak Forward Voltage at 2.0A DC		V _F	1.3							V
Maximum DC Reverse Current @T _J =25°C		I _R	5.0							uA
at Rated DC Blocking Voltage @T _J =100°C			100							
Maximum Reverse Recovery Time(Note 1)		T _{RR}	150				250	500		ns
Typical Junction Capacitance (Note2)		C _J	30				20			pF
Typical Thermal Resistance (Note3)		R _{θJA}	25							°C/W
Operating Temperature Range		T _J	-50 to +125							°C
Storage Temperature Range		T _{STG}	-50 to +150							°C
NOTES: 1.Measured with I _F =0.5A,I _R =1A,I _{RR} =0.25A 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC 3.Thermal resistance junction of ambient.										

FIG. 1 – FORWARD CURRENT DERATING CURVE

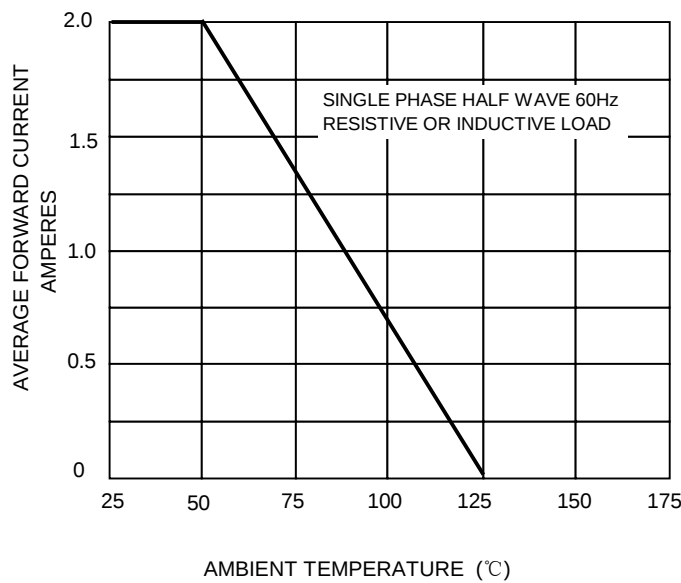


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

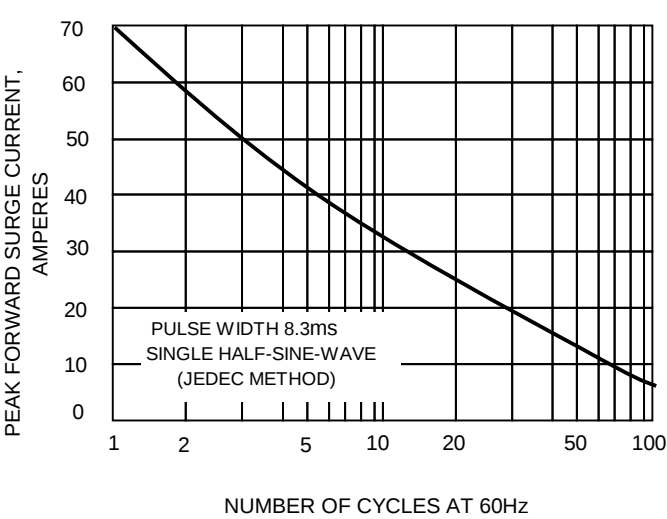


FIG.3 – TYPICAL JUNCTION CAPACITANCE

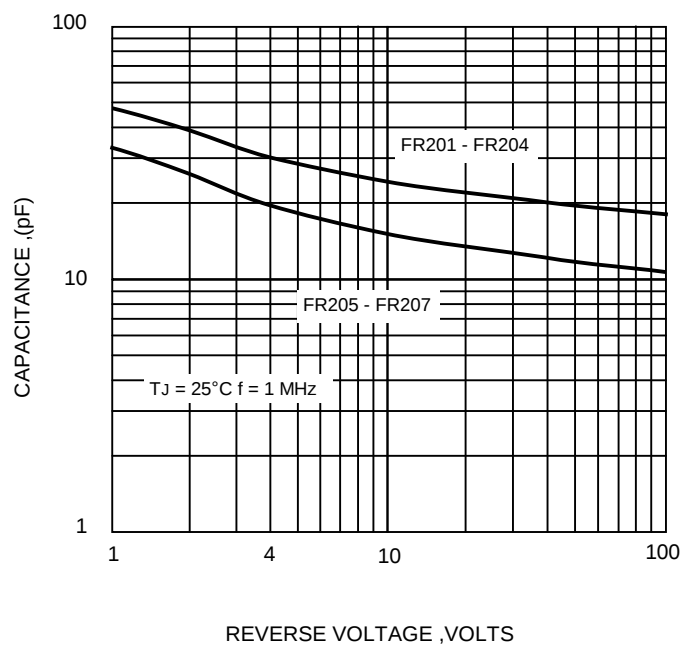


FIG.4-TYPICAL FORWARD CHARACTERISTICS

