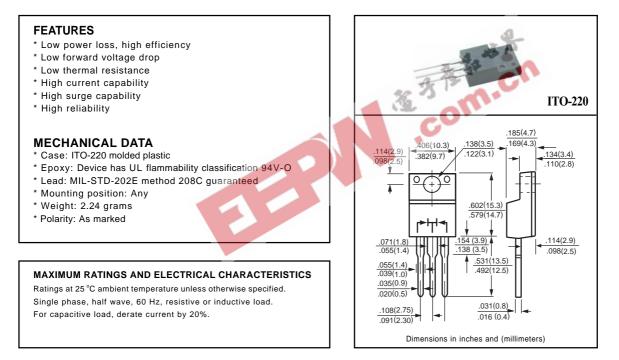




## **GLASS PASSIVATED SILICON RECTIFIER**

VOLTAGE RANGE 50 to 800 Volts CURRENT 16 Amperes



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

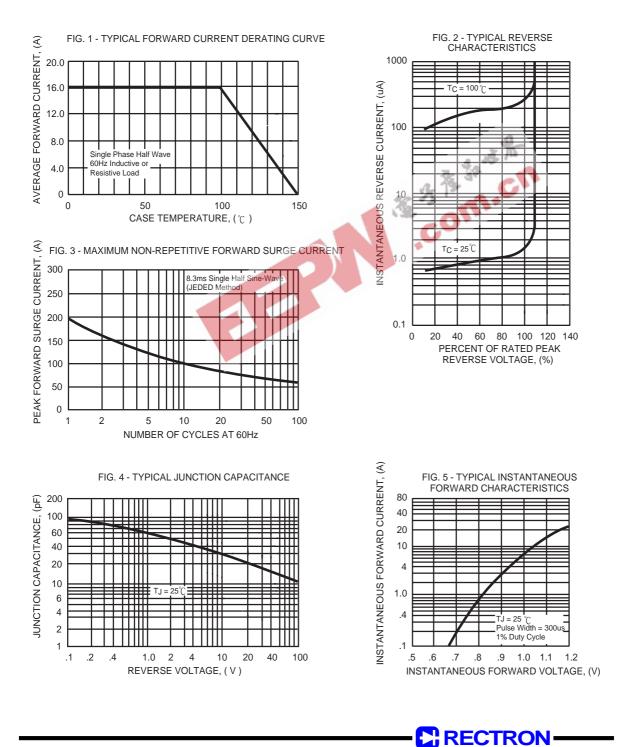
RATINGS	SYMBOL	IRL1601C	IRL1602C	IRL1603C	IRL1604C	IRL1605C	IRL1606C	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	Volts
Maximum Average Forward Rectified Current Tc = 100°C (Note 1)	Io	16.0						Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200						Amps
Typical Thermal Resistance	RθJC	3.0						°C/W
Typical Junction Capacitance (Note 2)	CJ	40						pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150						° C

## ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	IRL1601C I	IRL1602C	IRL1603C	IRL1604C	IRL1605C	IRL1606C	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		Vf	1.1						Volts
Maximum DC Reverse Current	@Tc = 25°C	la.	10						uAmps
at Rated DC Blocking Voltage	@Tc = 100°C	IR	100						

NOTES: 1.Case Temperature Measured at Metal Tab.

2.Measured at 1 MHz and applied reverse voltage of 4.0 volts.



## RATING AND CHARACTERISTIC CURVES (IRL1601C THRU IRL1606C)