

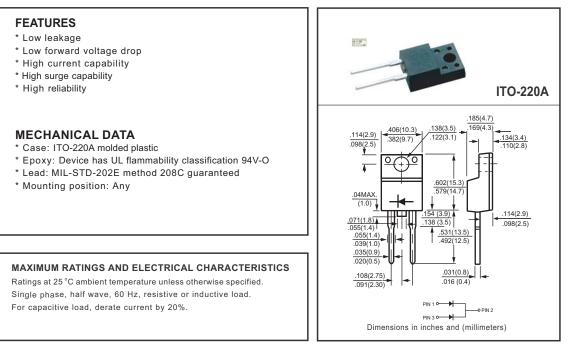
IRL801 THRU **IRL807**

2016-09

REV:A

GLASS PASSIVATED SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes



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

RATINGS	SYMBOL	IRL801	IRL802	IRL803	IRL804	IRL805	IRL806	IRL807	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 _C = 100 °C	lo	8.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	125						Amps	
Typical Current Squared Time	l ² t	64.8					A ² /S		
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	3.6							
	$R_{\theta JA}$	25							
Typical Junction Capacitance (Note 2)	CJ	40					pF		
Operating and Storage Temperature Range	TJ, TSTG	G -55 to + 150						° C	

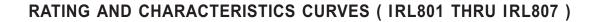
ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

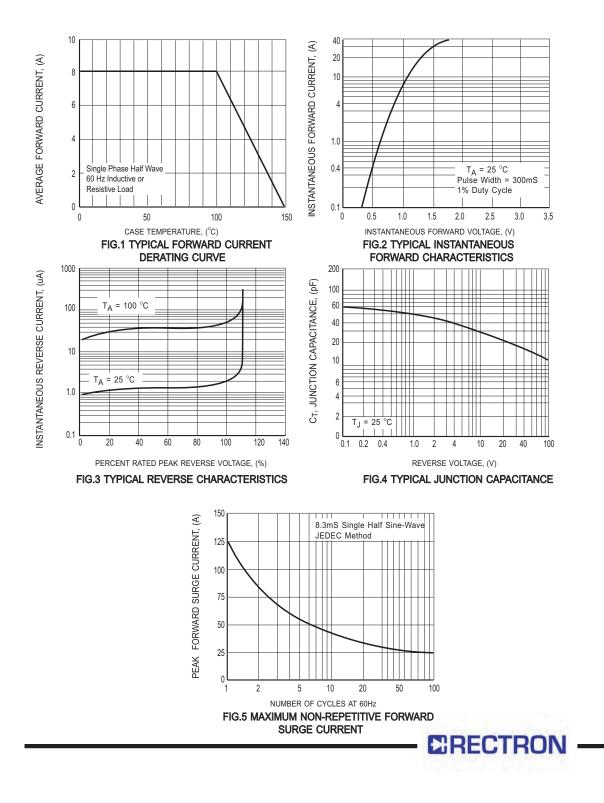
CHARACTERISTICS		SYMBOL	IRL801	IRI802	IRI803	IRI804	IRI805	IRL806	IRL807	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.0							Volts
Maximum DC Reverse Current	@T _A = 25°C	- I _R				1.0				
at Rated DC Blocking Voltage	@T _A = 100°C		50							uAmps

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

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
4. Suffix "R" for Reverse Polarity.

Suffix "S" for D2-PAK Pkg.
Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

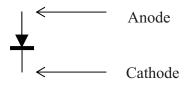




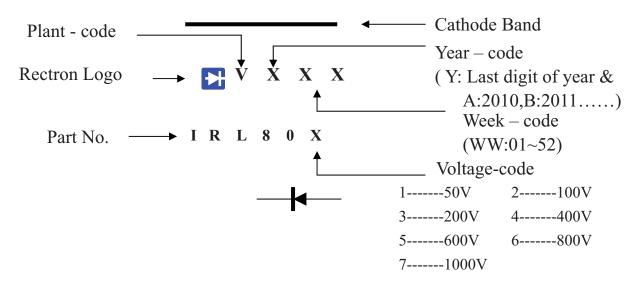


Attachment information about IRL80X

1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
(I)TO-220/TO-220(A)	-C	2,000	550*140*92	572*308*120	4,000	11.80

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