



HEP801~HEP807

ISOLATION ULTRAFAST RECOVERY RECTIFIERS

Voltage Range 50 to 800 Volts

Current 8.0 Amperes

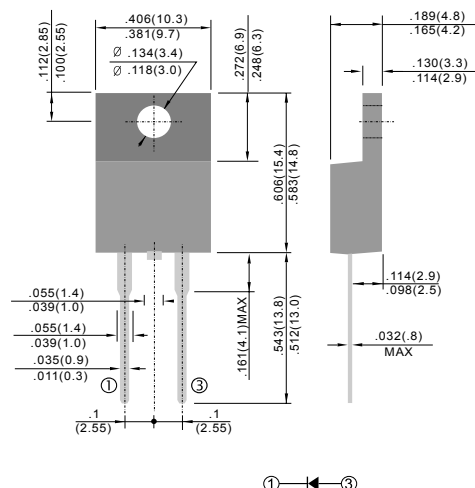
Features

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- * Exceeds environmental standards of MIL-S-19500/228
- * Low power loss, high efficiency.
- * Low forward voltage, high current capability
- * High surge capacity.
- * Ultra fast recovery times, high voltage.
- * Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

Mechanical Data

Case: ITO-220AC full molded plastic package
 Terminals: Lead solderable per MIL-STD-202G, Method 208
 Polarity: As marked.
 Standard packaging: Any
 Weight: 0.08 ounces, 2.24grams.

ITO-220AC



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

Ratings at 25°C Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	HEP801	HEP802	HEP803	HEP804	HEP805	HEP806	HEP807	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	V
Maximum Average Forward Rectified Current at T _J =100°C	I _{AV}	8.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	125							A
Maximum Forward Voltage at 8.0A	V _F	1.0			1.3		1.7		V
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=125°C	I _R	10 500							μA
Maximum Thermal Resistance (Note 2)	RθJC	5							°C / W
Typical Junction Capacitance	C _J	80					50		pF
Maximum Reverse Recovery Time (Note 1)	T _{RR}	50					100		ns
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-50 to +150							°C

NOTES:

1. Reverse Recovery Test Conditions: $I_F = .5\text{A}$, $I_R = 1\text{A}$, $I_{rr} = .25\text{A}$.
2. Thermal resistance from Junction to ambient and from junction to lead 0.375" (9.5mm) P.C.B mounted.

[Http://www.upm.com.tw](http://www.upm.com.tw)

E-mail: upm.tw@msa.hinet.net



HEP801~HEP807

ISOLATION ULTRAFAST RECOVERY RECTIFIERS

Voltage Range 50 to 800 Volts

Current 8.0 Amperes

Rating and Characteristic Curves

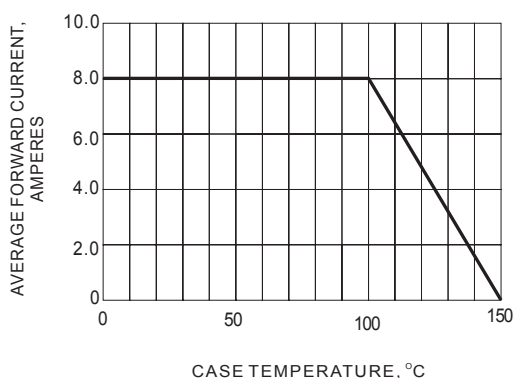


Fig.1 FORWARD CURRENT DERATING CURVE

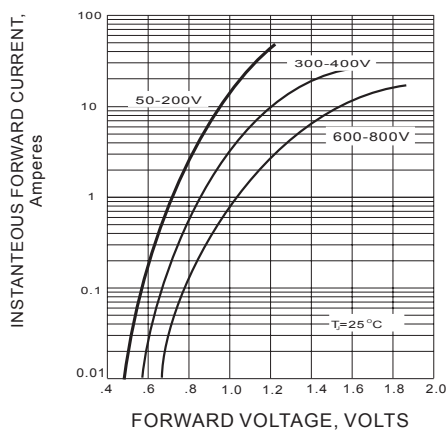


Fig.2 FORWARD CHARACTERISTICS

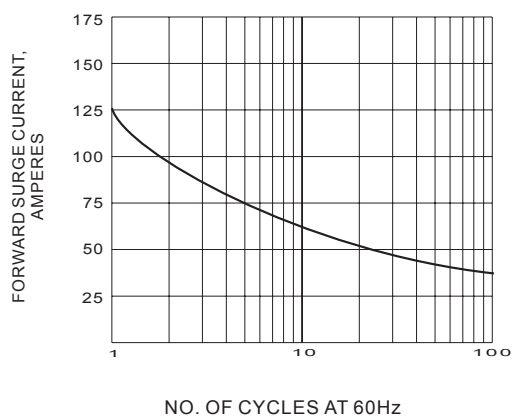


Fig.3 PEAK FORWARD SURGE CURRENT

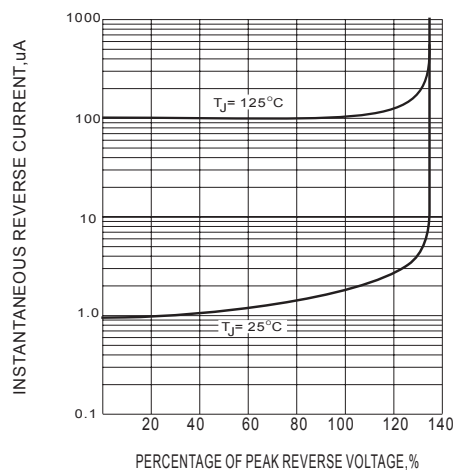


Fig.4 TYPICAL REVERSE CHARACTERISTICS