

## UF800~UF808

VOLTAGE	50 to 800 Volt	CURRENT	8 Ampere	TO-220AC	Unit : inch(mm			
FEATURES				0.419(10.66)				
Flammability	kage has Underwriters I v Classification 94V-O ut dant Epoxy Molding Cor	ilizing	0.387(9.85) 0.156(3.95) 0.147(3.75)	0.196(5.00) 0.163(4.16) 0.054(1.39) 0.045(1.15)				
Low power I	oss, high efficiency.			MAX. 0.289(6.85) 0.0226(5.75) 5.87)				
<ul> <li>Low forward</li> </ul>	voltage, high current ca	oability		0.063(1.6)MAX.	0.548(13.93) 46(3.7) 30(3.3)			
<ul> <li>High surge</li> </ul>	capacity.		624(	.548( (3.7)				
<ul> <li>Ultra fast red</li> </ul>	covery times, high voltag	e.	0.063	0.548( <sup>7</sup> ) 0.146(3.7) 0.130(3.3)				
<ul> <li>Lead free in</li> </ul>	comply with EU RoHS	2011/65/EU directi	ves					
<ul> <li>Green mold</li> </ul>	ing compound as per IE	C61249 Std (Hale		0.115(2.92) 0.080(2.03)				
				0.038(0.96)	0.025(0.65)MAX.			
MECHANCA	AL DATA			0.019(0.50) ① ③ ③				
• Case: TO-2	20AC molded plastic page	kage	· · · · · · · · · · · · · · · · · · ·	<u>t</u>				
• Terminals: L	ead solderable per MIL-	STD-750, Method 2	026	0.200(5.08)				
· Polarity: As	s marked.		()—  <b>∢</b> —3					
Standard pa	ackaging: Any							
• Weight: 0.0	67 ounces, 1.89 grams							

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	UF800	UF801	UF802	UF803	UF804	UF806	UF808	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	300	400	600	800	V
Maximum RMS Voltage		35	70	140	210	280	420	560	V
Maximum DC Blocking Voltage		50	100	200	300	400	600	800	V
Maximum Average Forward Rectified Current at T <sub>c</sub> =100°C						8			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	125							А
Maximum Forward Voltage at 8A	V <sub>F</sub>	1 1.3			1.7		V		
Maximum DC Reverse Current at Rated DC Blocking Voltage $\begin{array}{c} T_{\rm J}{=}25^{\circ}\text{C} \\ T_{\rm J}{=}125^{\circ}\text{C} \end{array}$		1 500							μΑ
Maximum Thermal Resistance (Note 2)		5							°C / W
Typical Junction Capacitance	C」	80 50						pF	
Maximum Reverse Recovery Time (Note 1)		50 100						00	ns
Operating Junction and Storage Temperature Range	T_,T <sub>STG</sub>	-55 to +150						°C	

#### NOTES:

1. Reverse Recovery Test Conditions:  $I_{\mbox{\scriptsize F}}{=}0.5\mbox{\scriptsize A},\,I_{\mbox{\scriptsize R}}{=}1\mbox{\scriptsize A},\,I_{\mbox{\scriptsize R}}{=}0.25\mbox{\scriptsize A}.$ 

2. Thermal resistance from Junction to ambient and from junction to lead 0.375" (9.5mm) P.C.B mounted.



### UF800~UF808

8.0

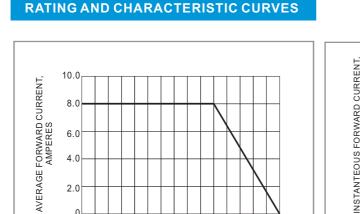
6.0

4.0

2.0

0

0



### Fig.1 FORWARD CURRENT DERATING CURVE

CASE TEMPERATURE, °C

100

50

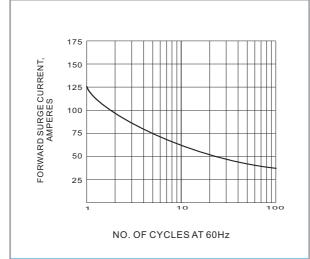
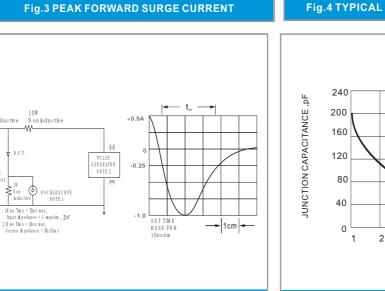
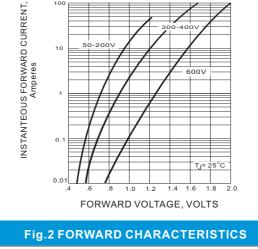


Fig.3 PEAK FORWARD SURGE CURRENT



150





100

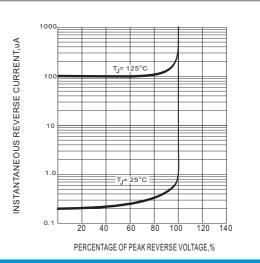
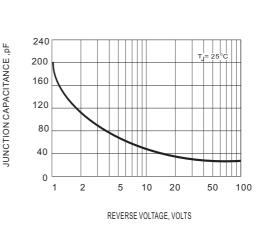


Fig.4 TYPICAL REVERSE CHARACTERISTICS



**Fig.6 TYPICAL JUNCTION CHARACTERISTICS** 

October 3,2016-REV.07

50W Noninductive

D ,U ,T

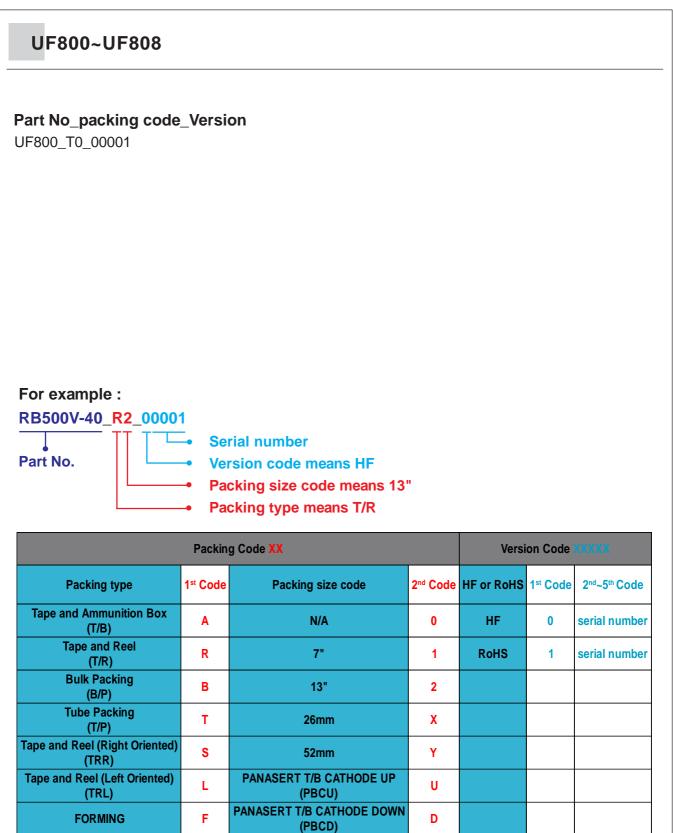
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(+) 25V d

10W Noninductive







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