
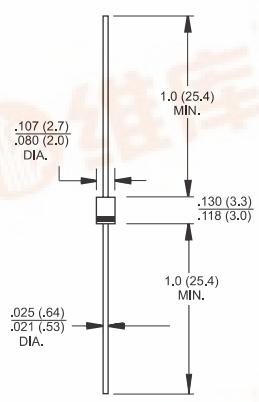
	<h1 style="margin: 0;">HT11 THRU HT18</h1> <h2 style="margin: 0;">1.0 AMP. High Efficient Rectifiers</h2>										
					Voltage Range 50 to 1000 Volts Current 1.0 Ampere						
<p><b>Features</b></p> <ul style="list-style-type: none"> <li>✧ Low forward voltage drop</li> <li>✧ High current capability</li> <li>✧ High reliability</li> <li>✧ High surge current capability</li> </ul> <p><b>Mechanical Data</b></p> <ul style="list-style-type: none"> <li>✧ Case: Molded plastic TS-1</li> <li>✧ Epoxy: UL 94V-O rate flame retardant</li> <li>✧ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed</li> <li>✧ Polarity: Color band denotes cathode end</li> <li>✧ High temperature soldering guaranteed: 260°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension</li> <li>✧ Mounting position: Any</li> <li>✧ Weight: 0.20 gram</li> </ul>					<p><b>TS-1</b></p>  <p style="text-align: center;"><b>Dimensions in inches and (millimeters)</b></p>						
<p><b>Maximum Ratings and Electrical Characteristics</b></p>											
<p>Rating 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%</p>											
<b>Type Number</b>	<b>Symbol</b>	<b>HT 11</b>	<b>HT 12</b>	<b>HT 13</b>	<b>HT 14</b>	<b>HT 15</b>	<b>HT 16</b>	<b>HT 17</b>	<b>HT 18</b>	<b>Units</b>	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	300	400	600	800	1000	V	
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	420	560	700	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	600	800	1000	V	
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ T <sub>A</sub> = 55°C	I <sub>(AV)</sub>	1.0								A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	30								A	
Maximum Instantaneous Forward Voltage @ 1.0A	V <sub>F</sub>	1.0			1.3		1.7				V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =100°C	I <sub>R</sub>	5.0					100				uA
Maximum Reverse Recovery Time ( Note 1 )	T <sub>rr</sub>	50				75				nS	
Typical Junction Capacitance ( Note 2 )	C <sub>j</sub>	20				15				pF	
Typical Thermal Resistance ( Note 3 )	R <sub>θJA</sub>	100								°C/W	
Operating Temperature Range	T <sub>J</sub>	-65 to +150								°C	
Storage Temperature Range	T <sub>STG</sub>	-65 to +150								°C	

Notes: 1. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A  
 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.  
 3. Mount on Cu-Pad Size 5mm x 5mm on PCB.



## RATINGS AND CHARACTERISTIC CURVES (HT11 THRU HT18)

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

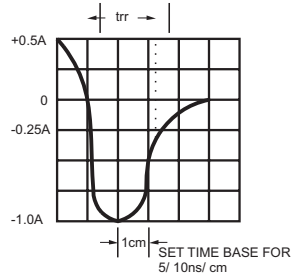
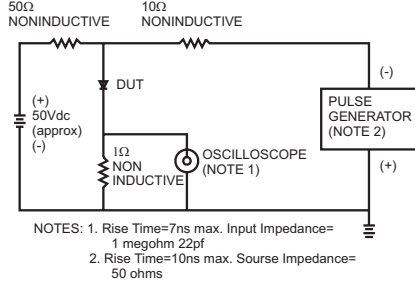


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

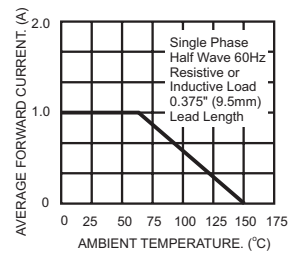


FIG.3- TYPICAL REVERSE CHARACTERISTICS

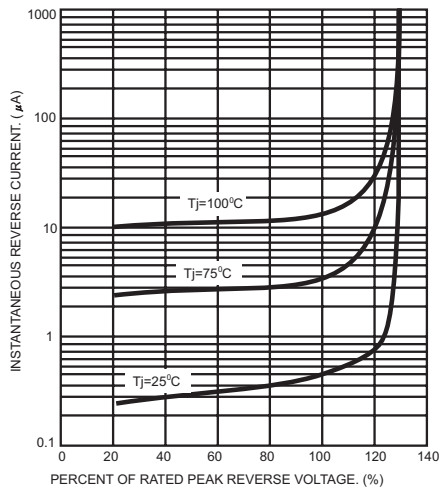


FIG.4- TYPICAL FORWARD CHARACTERISTICS

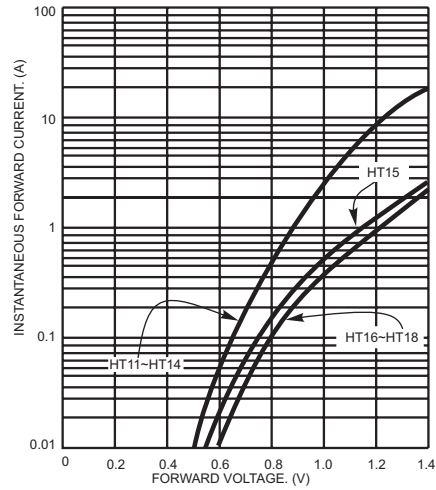


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

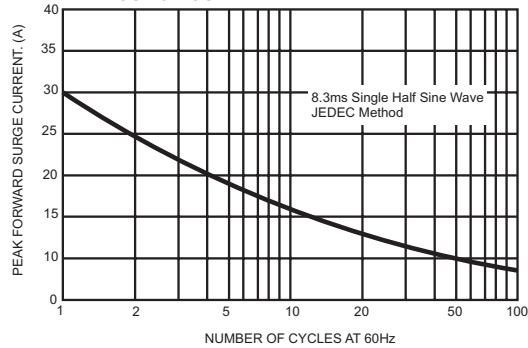


FIG.6- TYPICAL JUNCTION CAPACITANCE

