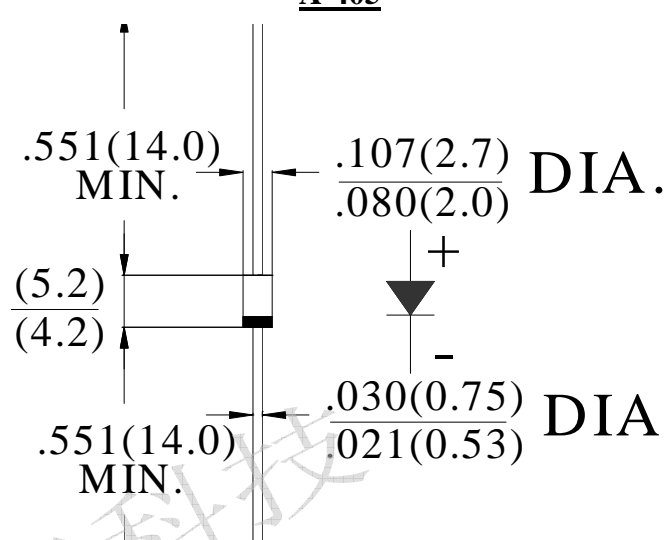


1N5817S THRU 1N5819S

1.0AMP. SCHOTTKY BARRIER RECTIFIERS

<p>FEATURE</p> <ul style="list-style-type: none"> . High current capability . Low forward voltage drop . Low power loss, high efficiency . High surge capability . High temperature soldering guaranteed <p>260°C / 1 0sec/0.375" lead length at 5 lbs tension</p> <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> . Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy . Polarity: color band denotes cathode . Mounting position: any 	<p style="text-align: center;">A-405</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>				
<p style="text-align: center;">MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)</p>					
<p style="text-align: center;">Type Number</p>	<p style="text-align: center;">SYMBOL</p>	<p style="text-align: center;">1N5817S</p>	<p style="text-align: center;">1N5818S</p>	<p style="text-align: center;">1N5819S</p>	<p style="text-align: center;">units</p>
<p>Maximum Recurrent Peak Reverse Voltage</p>	<p>V_{RRM}</p>	<p>20</p>	<p>30</p>	<p>40</p>	<p>V</p>
<p>Maximum RMS Voltage</p>	<p>V_{RMS}</p>	<p>14</p>	<p>21</p>	<p>28</p>	<p>V</p>
<p>Maximum DC blocking Voltage</p>	<p>V_{DC}</p>	<p>20</p>	<p>30</p>	<p>40</p>	<p>V</p>
<p>Maximum Average Forward Rectified Current 3/8" lead length at TL =90°C</p>	<p>$I_{F(AV)}$</p>	<p>1.0</p>			<p>A</p>
<p>Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)</p>	<p>I_{FSM}</p>	<p>25.0</p>			<p>A</p>
<p>Maximum Forward Voltage at 1.0A DC</p>	<p>V_F</p>	<p>0.45</p>	<p>0.55</p>		<p>V</p>
<p>Maximum Forward Voltage at 3.0A DC</p>	<p>V_F</p>	<p>0.75</p>	<p>0.875</p>		<p>V</p>
<p>Maximum DC Reverse Current at rated DC blocking voltage</p> <p style="text-align: right;">Ta =25°C Ta =100°C</p>	<p>I_R</p>	<p>0.2 5.0</p>			<p>mA mA</p>
<p>Typical Junction Capacitance (Note 1)</p>	<p>C_J</p>	<p>110</p>			<p>pF</p>
<p>Typical Thermal Resistance (Note 2)</p>	<p>$R_{(JA)}$</p>	<p>50</p>			<p>°C /W</p>
<p>Storage Temperature</p>	<p>T_{STG}</p>	<p>-55 to +150</p>			<p>°C</p>
<p>Operating Junction Temperature</p>	<p>T_J</p>	<p>-55 to +125</p>			<p>°C</p>
<p>Note:</p> <ol style="list-style-type: none"> 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc 2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted 					

RATING AND CHARACTERISTIC CURVES (1N5817S THRU 1N5819S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

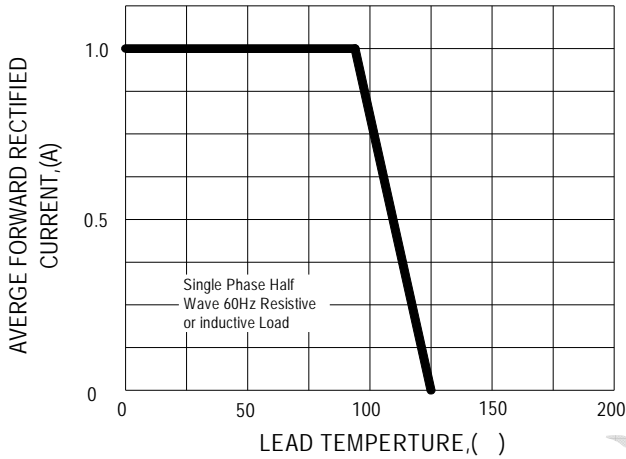


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

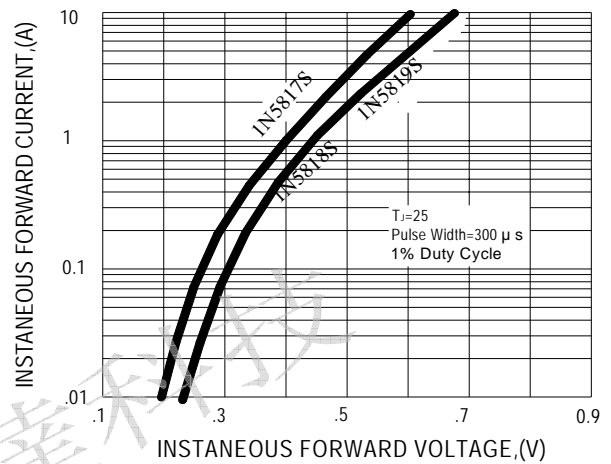


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

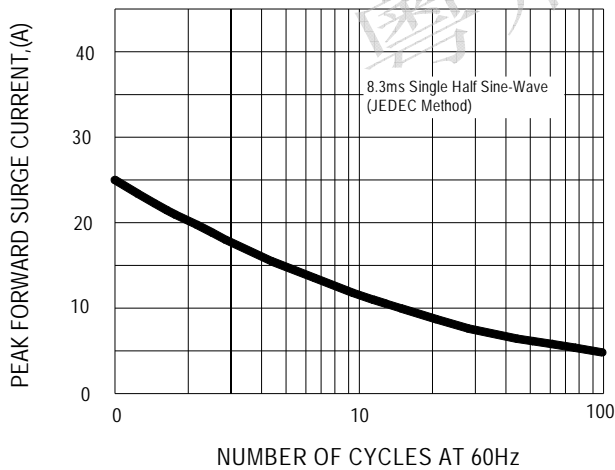


FIG.4-TYPICAL REVERSE CHARACTERISTICS

