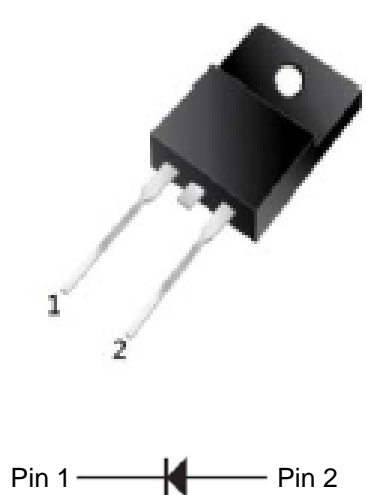


<p><b>Hyperfast Recovery Rectifier</b></p>	<p><b>REVERSE VOLTAGE - 600 Volts</b> <b>FORWARD CURRENT - 8.0 Amperes</b></p>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Low forward voltage drop</li> <li>• High current capability</li> <li>• High reliability</li> <li>• High surge current capability</li> <li>• High speed switching</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case: ITO-220AC</li> <li>• Polarity: Cathode Band</li> <li>• Weight: 1.57 grams</li> </ul>	<p>ITO-220AC</p> 

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

Characteristics	Symbol	Value		Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	600		V
RMS Reverse Voltage	$V_{RMS}$	420		V
Forward Voltage Drop $I_F=2A$ ( $T_J=25^\circ C$ ) $I_F=8 A$ ( $T_J=25^\circ C$ )	$V_F$	Typ. 1.10 -	Max. - 1.50	V
Maximum Reverse Current at Rated $V_{RRM}$ $T_J=25^\circ C$ $T_J=125^\circ C$	$I_R$	2.0 50.0		$\mu A$
Maximum Average Forward Rectified Current Total device	$I_F$	8.0		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	$I_{FSM}$	80		A
Reverse Recovery Time	$T_{RR}$	Typ. 22	Max. 30	nS
Typical Thermal Range	$R_{\theta JC}$	3.0		$^\circ C/W$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +175		$^\circ C$

## Rating and Characteristic Curves

FIG. 1-Typical Forward Current Derating Curve

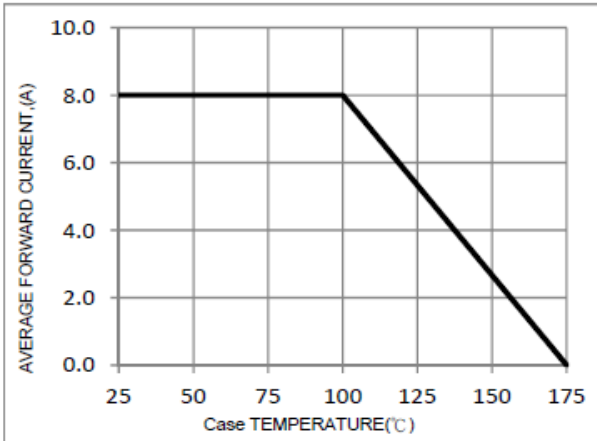


FIG. 2-Typical Forward Characteristics

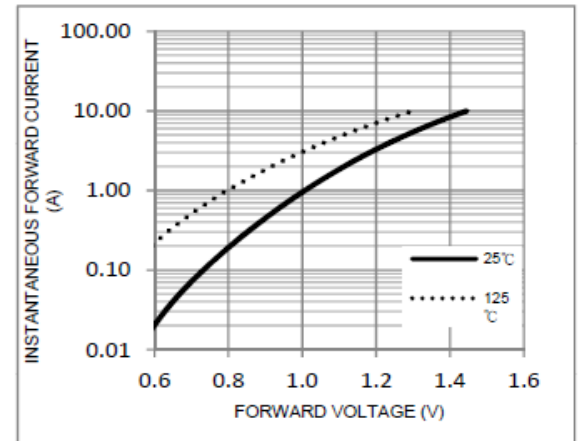


FIG. 3-Maximum Non-Repetitive Forward Surge Current

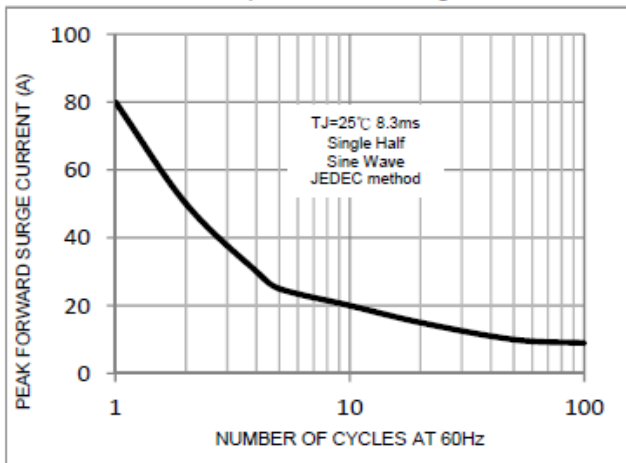


FIG. 4-Typical Reverse Characteristics

