


<b>HYPERFAST RECOVERY RECTIFIER</b>	<b>REVERSE VOLTAGE 600 Volts FORWARD CURRENT 10 Amperes</b>
<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: 1.90 grams</li> </ul>	<p>ITO-220AC</p>  <p>Pin 1 ←   → Pin 2</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	UF10G06FST		Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	600		V
RMS Reverse Voltage	$V_{RMS}$	420		V
Forward Voltage Drop $I_F=2A$ $T_J=25^\circ C$ $I_F=10A$ $T_J=25^\circ C$	$V_F$	Typ. 1.0 -	Max. - 1.60	V
Maximum Reverse Current at Rated $V_{RRM}$ , $T_J=25^\circ C$ $T_J=125^\circ$	$I_R$	2 50		$\mu A$
Maximum Average Forward Rectified Current Total device	$I_F$	10		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	$I_{FSM}$	110		A
Reverse Recovery Time	$T_{rr}$	Typ. 25	Max. 33	nS
Typical Thermal Range	$R_{\theta JC}$	3		$^\circ C/W$
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +175		$^\circ C$

## Rating and Characteristic Curves

FIG. 1-Typical Forward Current Derating Curve

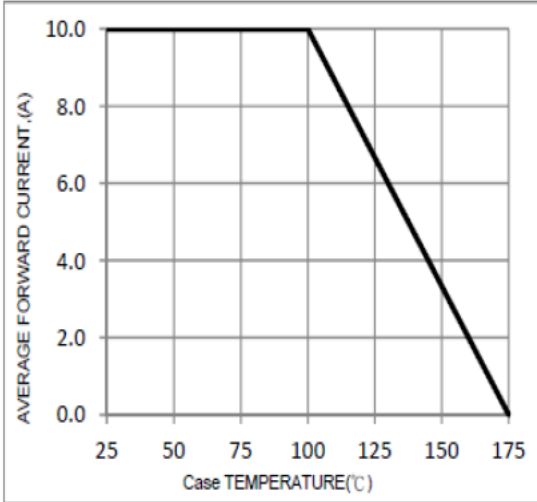


FIG. 2-Typical Forward Characteristics

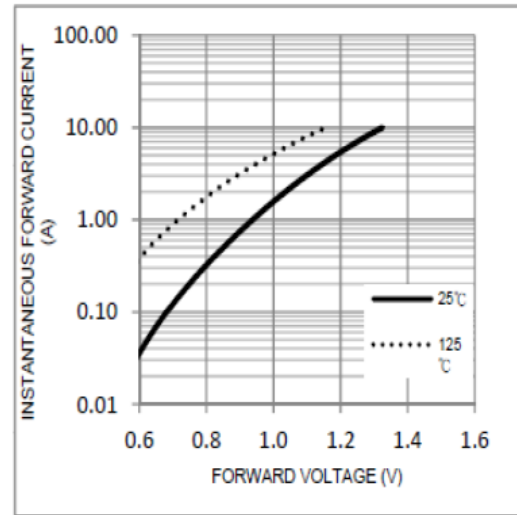


FIG. 3-Maximum Non-Repetitive Forward Surge Current

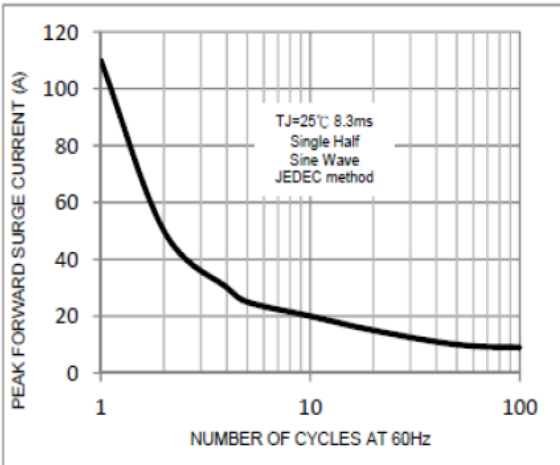


FIG. 4-Typical Reverse Characteristics

