



<p>Hyperfast Recovery Rectifier</p>	<p>REVERSE VOLTAGE - 600 Volts FORWARD CURRENT - 10.0 Amperes</p>
<p>FEATURES</p> <ul style="list-style-type: none"> • Low forward voltage drop • High current capability • High reliability • High surge current capability • High speed switching <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: ITO-220AC • Polarity: Cathode Band • Weight: 1.90 grams 	<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 $I_F=2A$ ($T_J=25^\circ C$) $I_F=10A$ ($T_J=25^\circ C$)	V_F	Typ. 1.10 -	Max. - 2.20	V
Maximum Reverse Current at Rated V_{RRM} $T_J=25^\circ C$ $T_J=125^\circ C$	I_R	2.0 50.0		μA
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}	110		A
Reverse Recovery Time	T_{RR}	Typ. 16	Max. 18	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

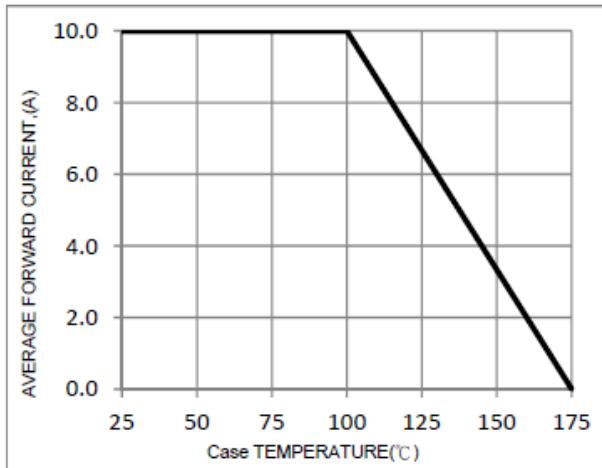


FIG. 2-Typical Forward Characteristics

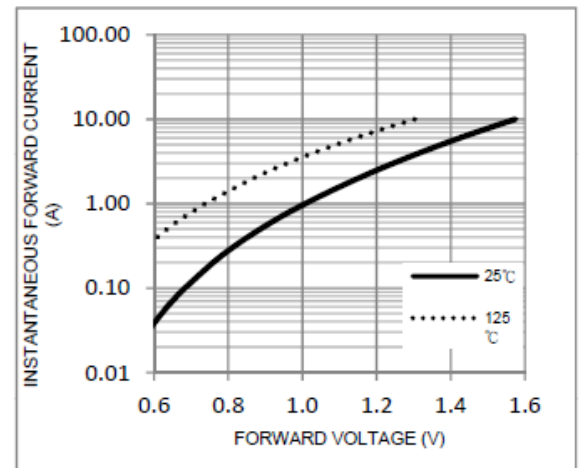


FIG. 3-Maximum Non-Repetitive Forward Surge Current

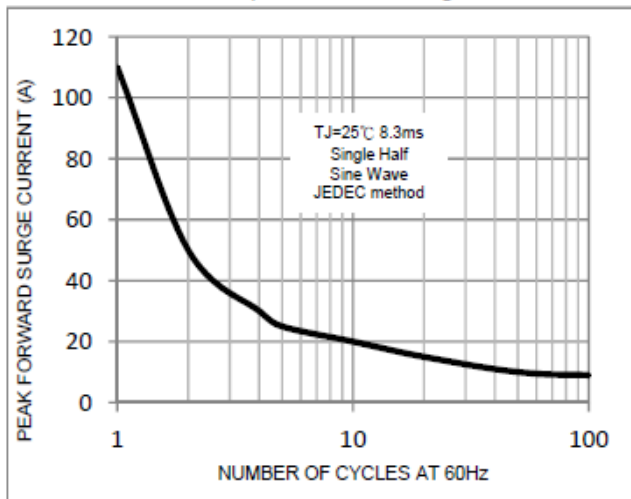


FIG. 4-Typical Reverse Characteristics

