


HYPERFAST RECOVERY RECTIFIER	REVERSE VOLTAGE 600 Volts FORWARD CURRENT 10 Amperes
<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	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		μA
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

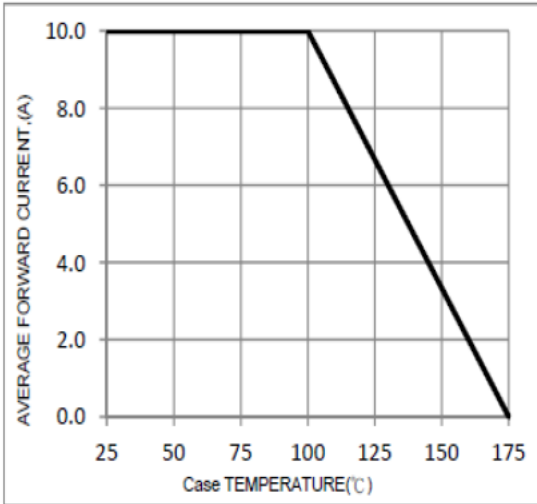


FIG. 2-Typical Forward Characteristics

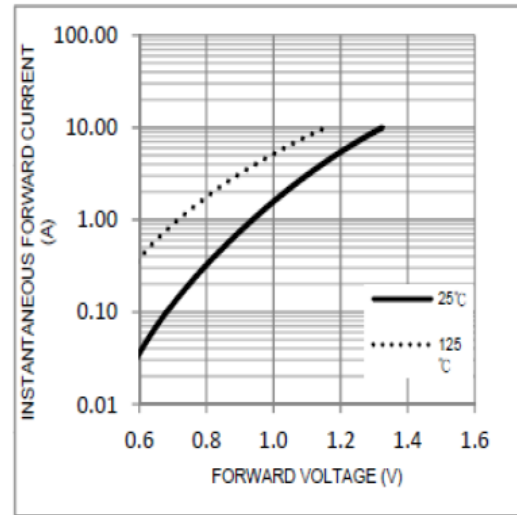


FIG. 3-Maximum Non-Repetitive Forward Surge Current

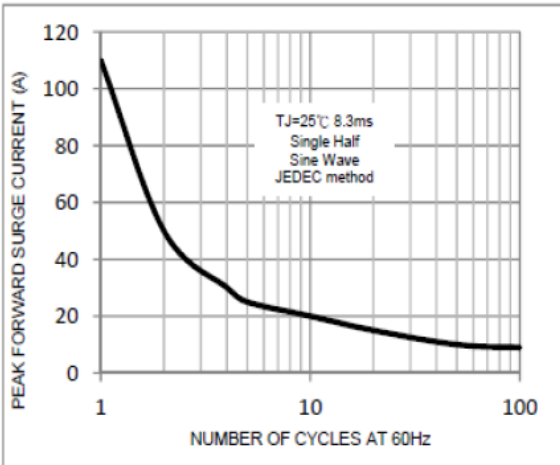


FIG. 4-Typical Reverse Characteristics

