



**SUPER FAST DIODE MODULE TYPES
140A / 100-600V**

Features

- High Surge Capability
- Types Up to 600V V_{RRM}
- Isolated to Plate

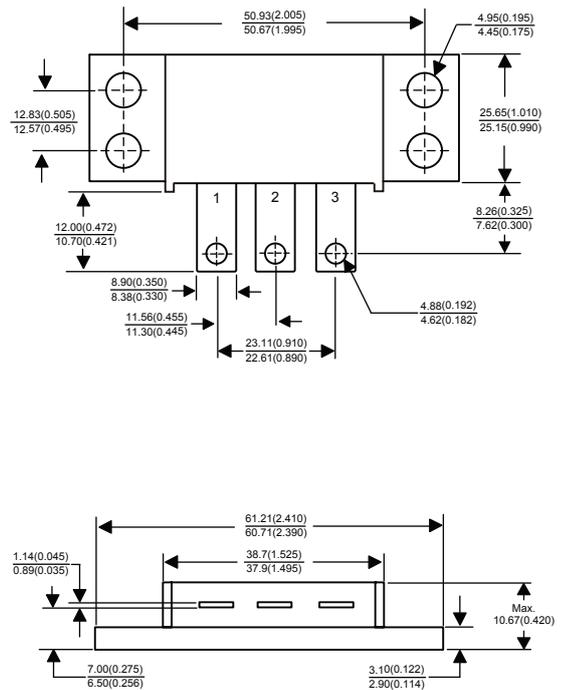
Maximum Ratings

- Operating Temperature : -55°C to $+175^{\circ}\text{C}$
- Storage Temperature : -55°C to $+175^{\circ}\text{C}$



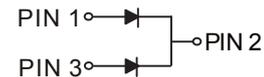
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
UFT14010	100V	70V	100V
UFT14020	200V	140V	200V
UFT14040	400V	280V	400V
UFT140A60	600V	420V	600V

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	140A	$T_C = 125^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	1300A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per leg) 14010~14020 14040 140A60	V_F	1.00V 1.30V 1.45V	$I_{FM} = 70\text{A};$ $T_J = 25^{\circ}\text{C}$
Maximum Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	25uA 3mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$
Maximum Reverse Recovery Time (Per leg) 14010~14020 14040 140A60	T_{rr}	75ns 85ns 90ns	$I_F = 0.5\text{A}, I_R = 1.0\text{A},$ $I_{RR} = 0.25\text{A}$
Isolation Voltage	V_i	1800V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.6°C/W	



*Pulse Test : Pulse Width 300 μsec , Duty Cycle 2%



Figure .1- Typical Forward Characteristics

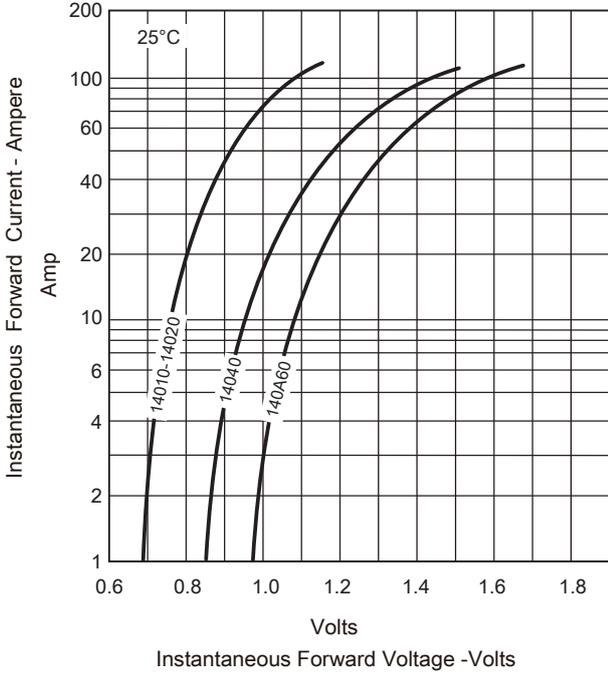


Figure .2-Forward Derating Curve

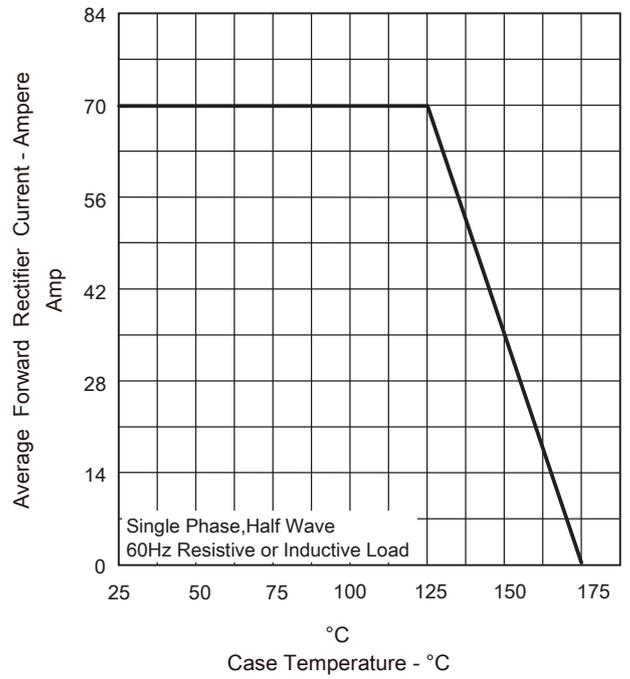


Figure .3- Peak Forward Surge Current

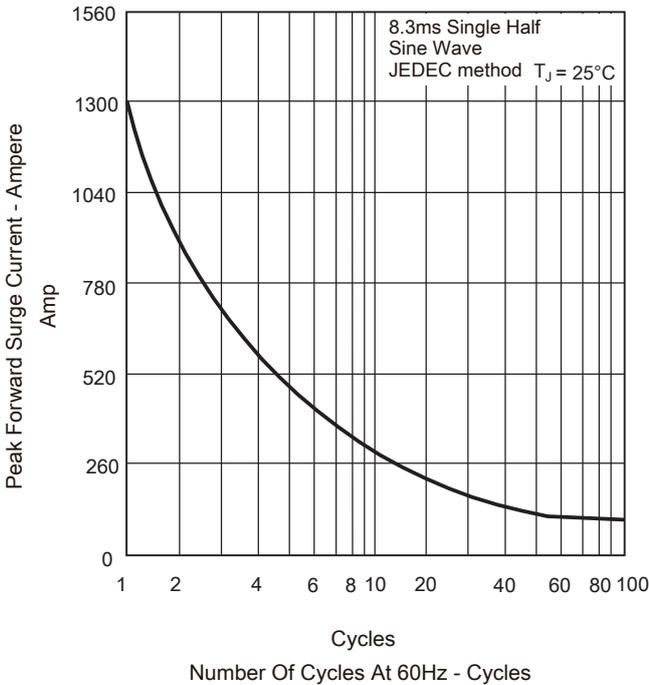
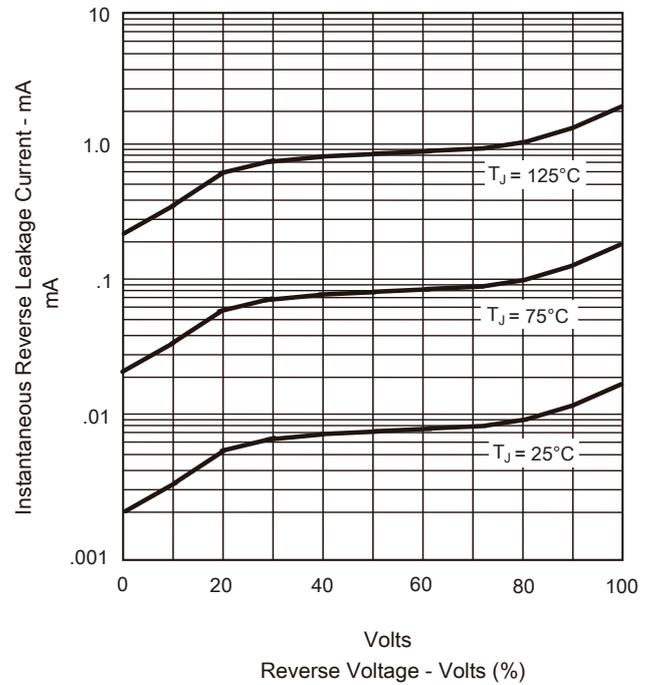


Figure .4-Typical Reverse Characteristics





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