

FEATURES

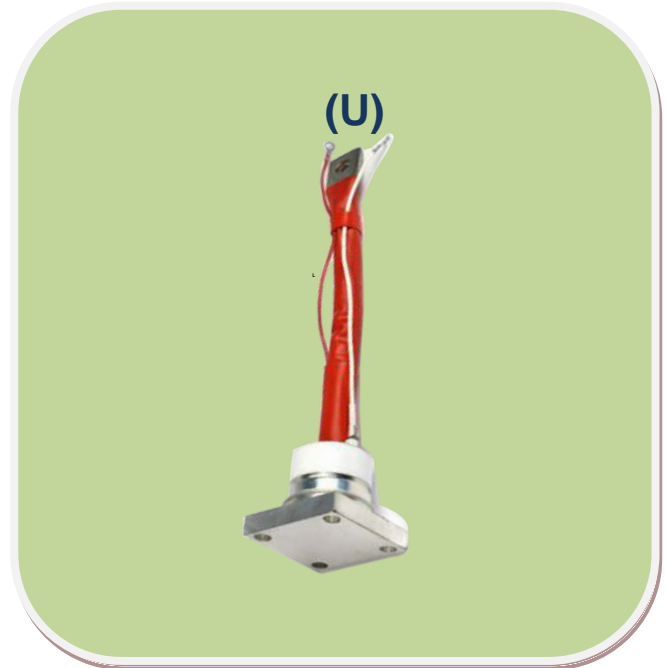
- Hermetic glass to metal seal
- High di/dt & dv/dt capabilities.
- Voltage grade upto 1800V

TYPICAL APPLICATIONS

- DC Motor control
- Controlled rectifiers
- AC Controllers

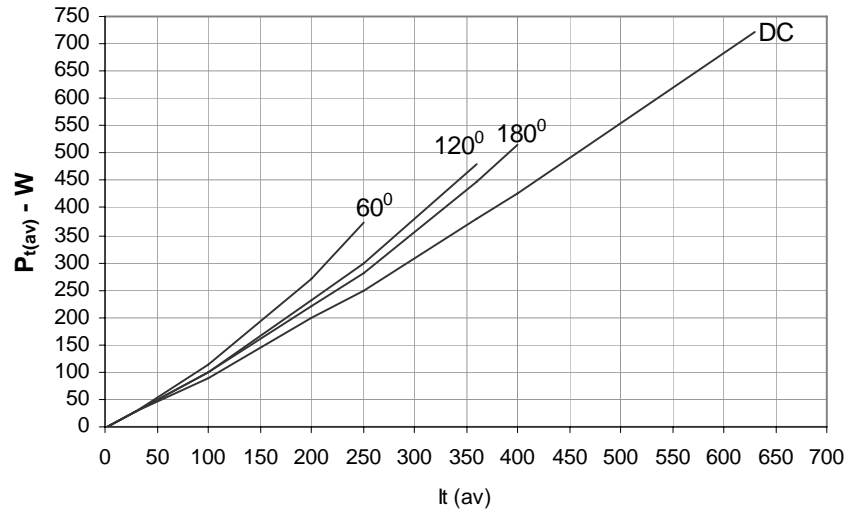
TECHNICAL DATA

DEVICE TYPE	V_{DRM}/V_{RRM} (V)	V_{RSM} (V)
T400U120	1200	1300
T400U160	1600	1700
T400U180	1800	1900

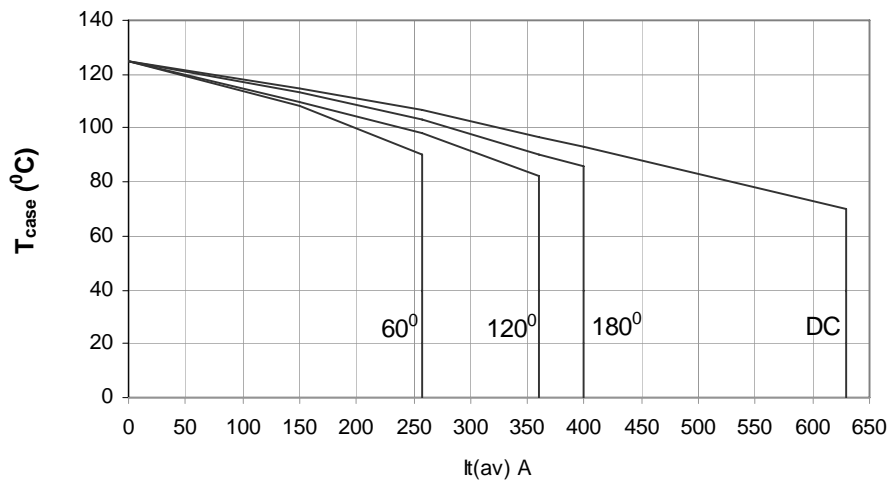


SYMBOL	CONDITIONS	VALUES
I_{TAV}	Sin. 180; $T_{case} = 68\text{ }^{\circ}\text{C}$	400 amp.
I_{RMS}	$T_a = 45\text{ }^{\circ}\text{C}$	628 amp.
I_{TSM}	$T_{vj} = 25\text{ }^{\circ}\text{C}$; 10ms	9500 amp.
I^2t	$T_{vj} = 25\text{ }^{\circ}\text{C}$	451 KA^2S
I_{RRM}/I_{DRM}	$T_{vj} = 25\text{ }^{\circ}\text{C}$ $T_{vj} = 125\text{ }^{\circ}\text{C}$	10 mA 50 mA
V_T	$T_{vj} = 25\text{ }^{\circ}\text{C}$ ($I_T = 1200\text{ Amp.}$); max	1.55 V
di/dt		100A/us
dv/dt		1000V/us
I_{GT}	$T_{vj} = 25\text{ }^{\circ}\text{C}$	200 mA
V_{GT}	$T_{vj} = 25\text{ }^{\circ}\text{C}$	3.0 V
I_H	$T_{vj} = 25\text{ }^{\circ}\text{C}$ Typical value	600 mA
I_L	$T_{vj} = 25\text{ }^{\circ}\text{C}$ Typical value	1000 mA
$R_{th(j-c)}$	Junction to case	0.07 $^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	case to heat sink	0.03 $^{\circ}\text{C}/\text{W}$
T_{vj}		125 $^{\circ}\text{C}$
T_{stg}		125 $^{\circ}\text{C}$
Mounting torque		10 Nm
Weight	Approx.	800 gm
Package Outline		U

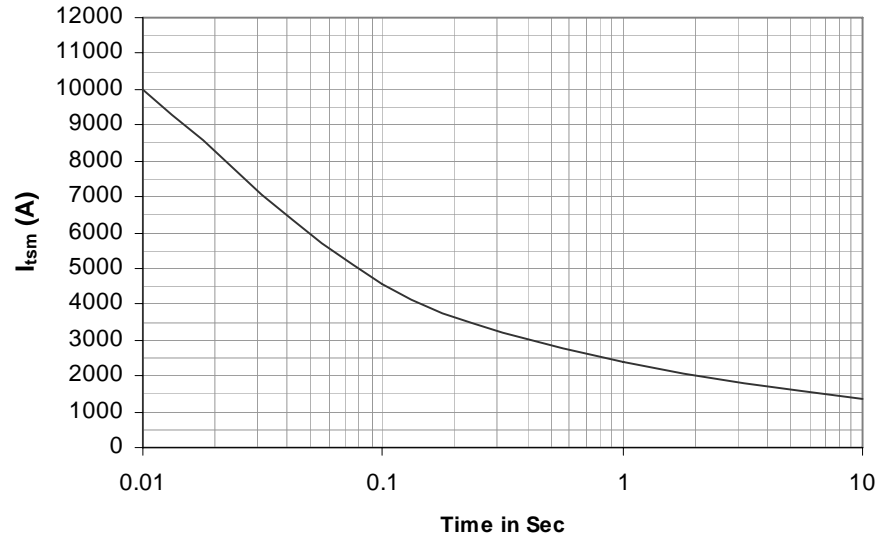
On State Power Loss



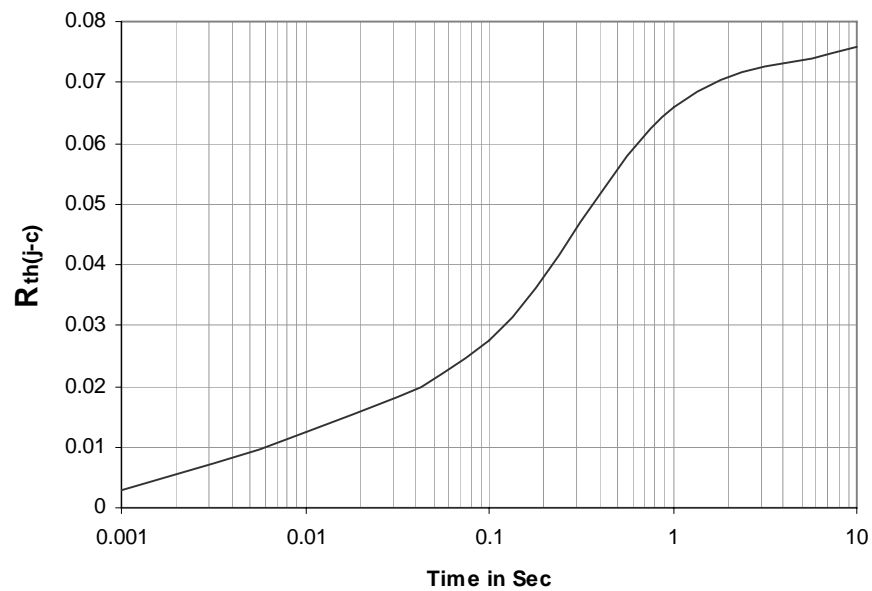
Maximum Permissible Case Temp



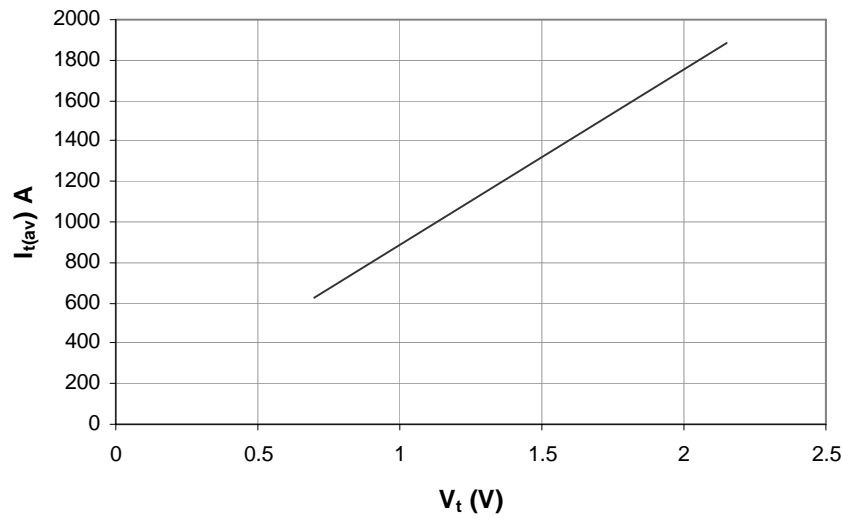
Max non repetitive Surge Current



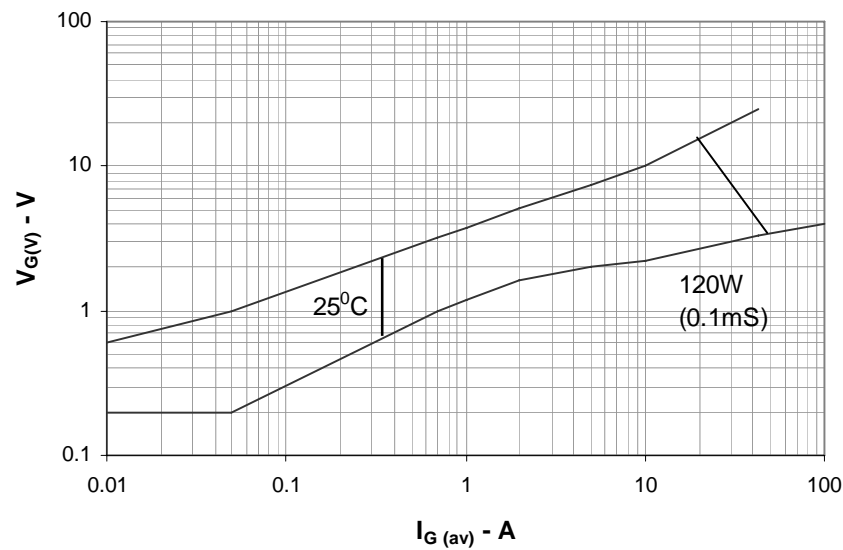
Transient Thermal Impedance Junction to Case



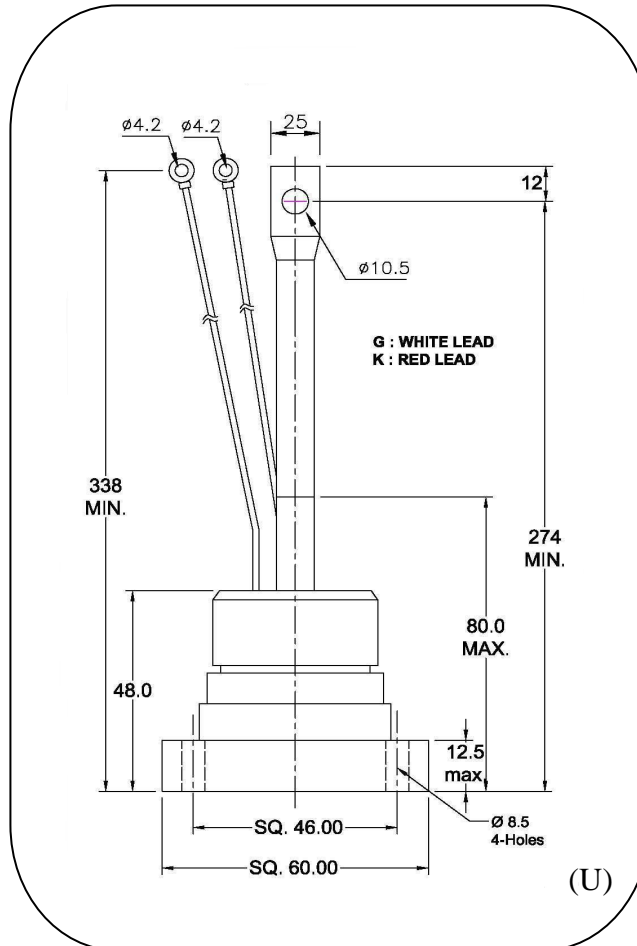
On State Characteristics



Gate Trigger Characteristics



PACKAGE OUTLINE



All dimension are in mm .

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