

FEATURES

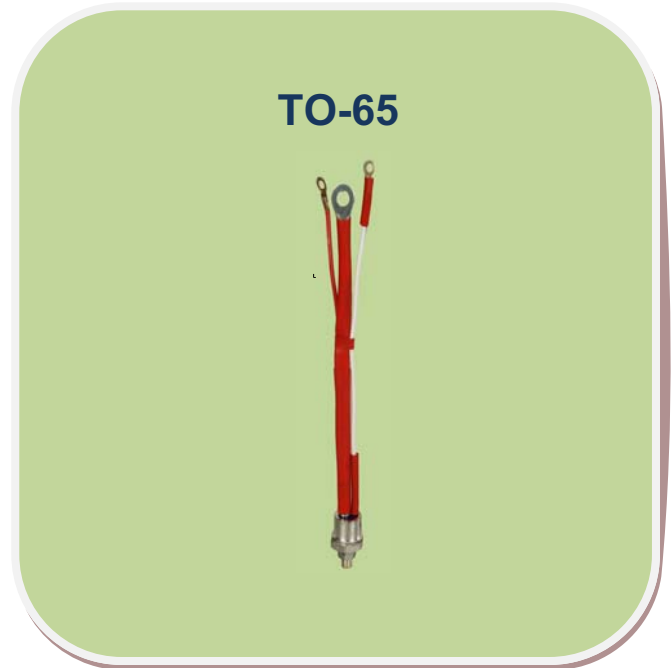
- Hermetic glass to metal seal
- High di/dt & dv/dt capabilities.
- Voltage grade upto 1600V

TYPICAL APPLICATIONS

- DC Motor control
- Controlled rectifiers
- AC Controllers

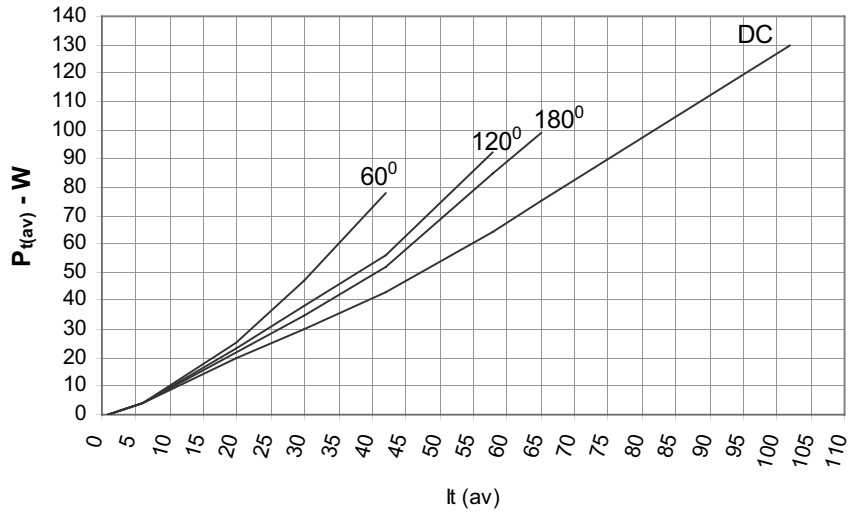
TECHNICAL DATA

DEVICE TYPE	V_{DRM}/V_{RRM} (V)	V_{RSM} (V)
T70C120	1200	1300
T70C160	1600	1700

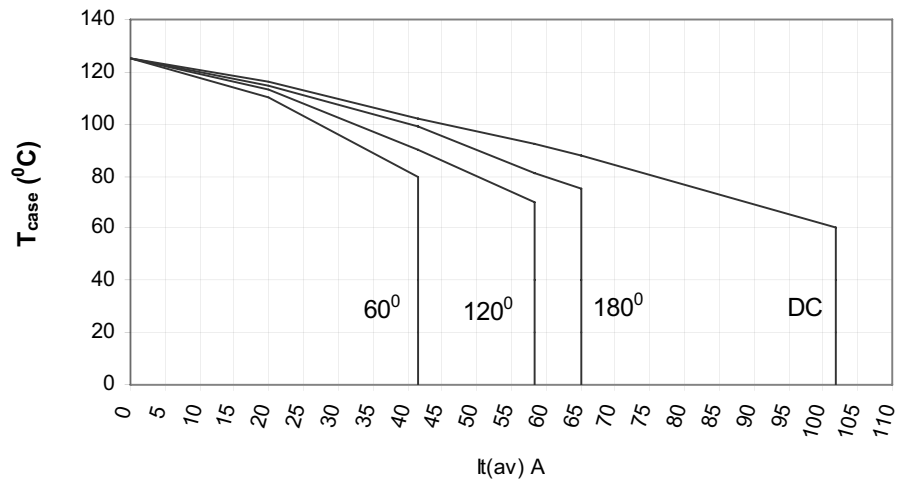


SYMBOL	CONDITIONS	VALUES
I_{TAV}	Sin. 180; $T_{case} = 94\text{ }^{\circ}\text{C}$	70 amp.
I_{RMS}	$T_a = 45\text{ }^{\circ}\text{C}$	100 amp.
I_{TSM} I^2t	$T_{vj}=25\text{ }^{\circ}\text{C}$; 10ms $T_{vj}=25\text{ }^{\circ}\text{C}$	1000 amp. 5000 A ² S
I_{RRM}/I_{DRM}	$T_{vj}=25\text{ }^{\circ}\text{C}$ $T_{vj}=125\text{ }^{\circ}\text{C}$	2 mA 10 mA
V_T	$T_{vj}=25\text{ }^{\circ}\text{C}$ ($I_T=200\text{ Amp.}$); max	1.87 V
di/dt		120A/us
dv/dt		500V/us
I_{GT} V_{GT} I_H I_L	$T_{vj}=25\text{ }^{\circ}\text{C}$ $T_{vj}=25\text{ }^{\circ}\text{C}$ $T_{vj}=25\text{ }^{\circ}\text{C}$ Typical value $T_{vj}=25\text{ }^{\circ}\text{C}$ Typical value	150 mA 2.5 V 200 mA 400 mA
$R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg}	Junction to case case to heat sink	0.50 $^{\circ}\text{C}/\text{W}$ 0.20 $^{\circ}\text{C}/\text{W}$ 125 $^{\circ}\text{C}$ 125 $^{\circ}\text{C}$
Mounting torque		4 Nm
Weight	Approx.	40 gm
Package Outline		C

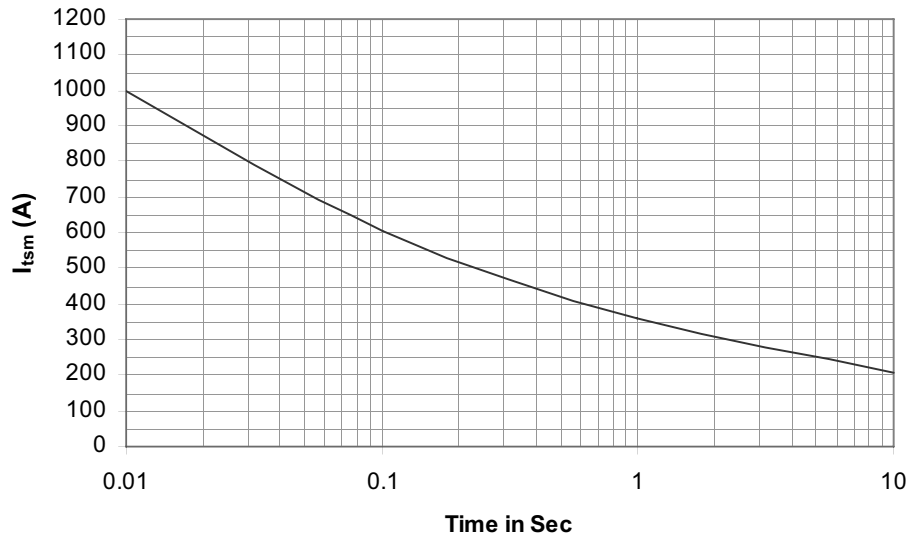
On State Power Loss



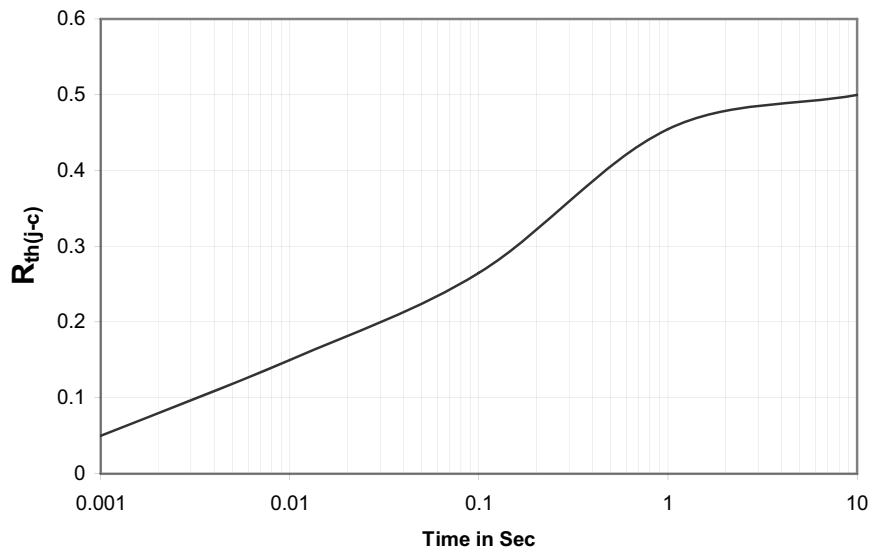
Maximum Permissible Case Temp



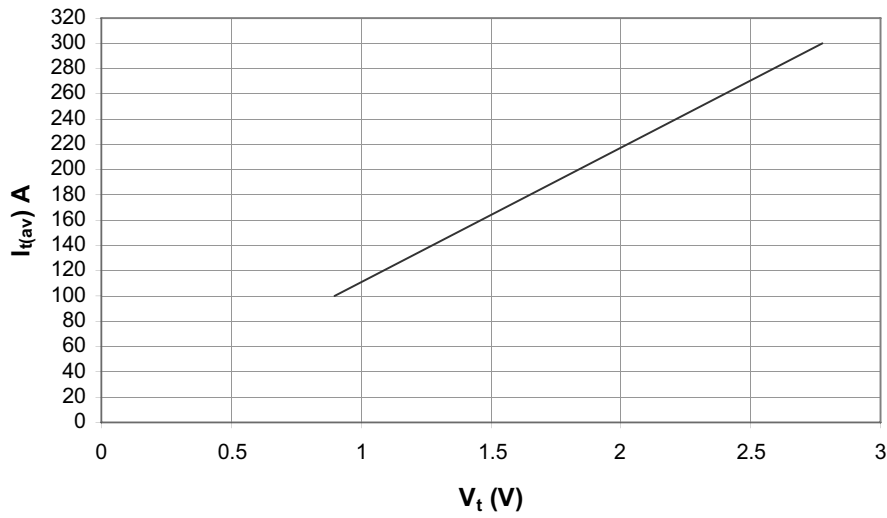
Max non repetitive Surge Current



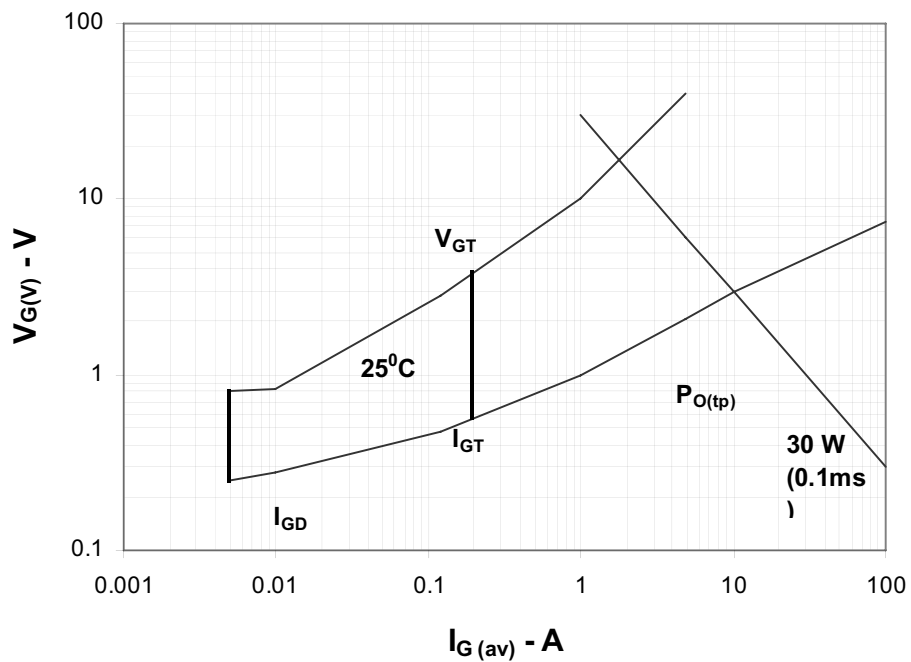
Transient Thermal Impedance Junction to Case



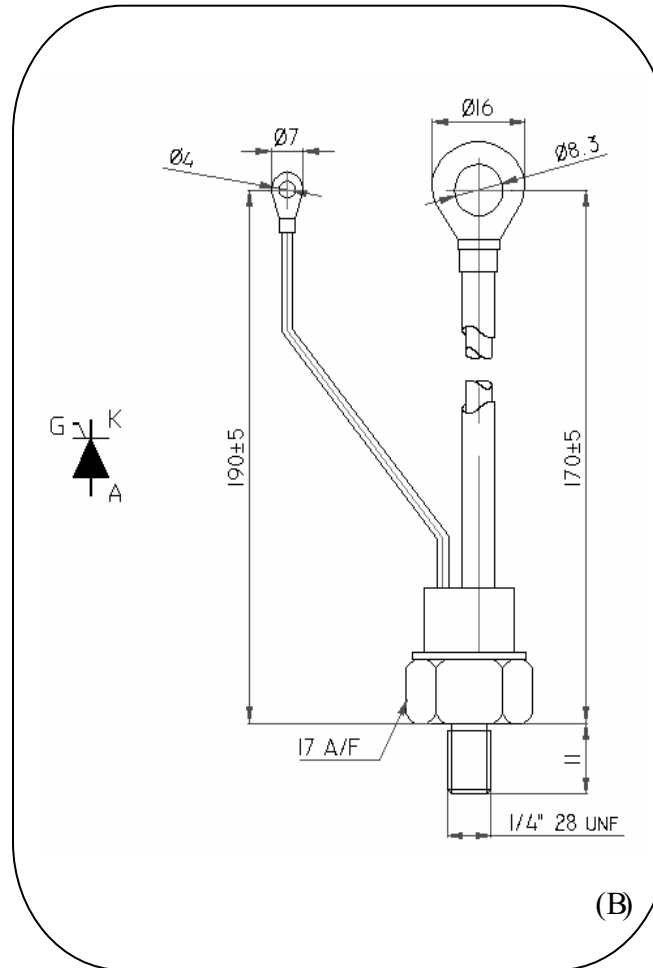
On State Characteristics



Gate Trigger Characteristics



PACKAGE OUTLINE



All dimension are in mm .

Insel Rectifiers (India) Pvt. Ltd.

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