

**FEATURES**

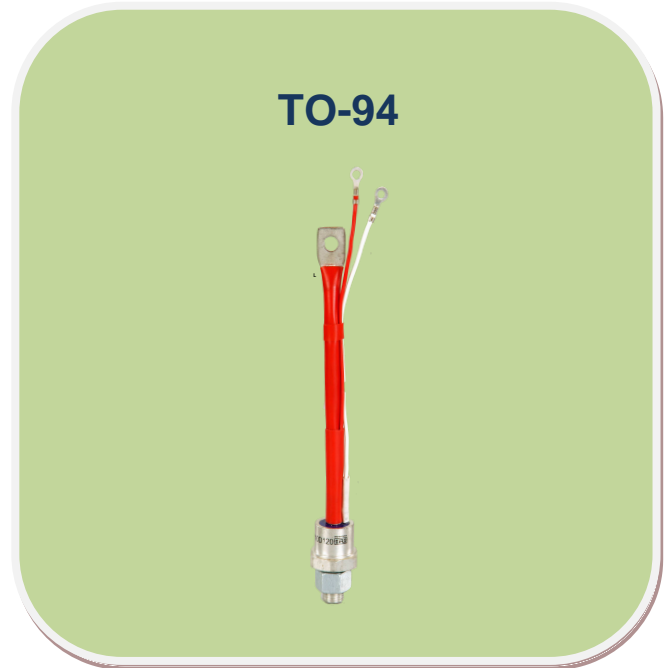
- Hermetic glass to metal seal
- High di/dt & dv/dt capabilities.
- Voltage grade upto 1600V

**TYPICAL APPLICATIONS**

- DC Motor control
- Controlled rectifiers
- AC Controllers

**TECHNICAL DATA**

DEVICE TYPE	$V_{DRM}/V_{RRM}$ (V)	$V_{RSM}$ (V)
T125D120	1200	1300
T125D160	1600	1700



SYMBOL	CONDITIONS	VALUES
$I_{TAV}$	Sin. 180; $T_{case} = 85^{\circ}C$	125 amp.
$I_{RMS}$	$T_a = 45^{\circ}C$	200 amp.
$I_{TSM}$	$T_{vj} = 25^{\circ}C$ ; 10ms	2570 amp.
$I^2t$	$T_{vj} = 25^{\circ}C$	45000 A <sup>2</sup> S
$I_{RRM}/I_{DRM}$	$T_{vj} = 25^{\circ}C$ $T_{vj} = 125^{\circ}C$	5 mA 20 mA
$V_T$	$T_{vj} = 25^{\circ}C$ ( $I_T = 400$ Amp.); max	1.55 V
di/dt		100A/us
dv/dt		500V/us
$I_{GT}$	$T_{vj} = 25^{\circ}C$	180 mA
$V_{GT}$	$T_{vj} = 25^{\circ}C$	3.0 V
$I_H$	$T_{vj} = 25^{\circ}C$ Typical value	300 mA
$I_L$	$T_{vj} = 25^{\circ}C$ Typical value	600 mA
$R_{th(j-c)}$	Junction to case	0.19 $^{\circ}C/W$
$R_{th(c-h)}$	case to heat sink	0.08 $^{\circ}C/W$
$T_{vj}$		125 $^{\circ}C$
$T_{stg}$		125 $^{\circ}C$
Mounting torque		10 Nm
Weight	Approx.	130 gm
Package Outline		D

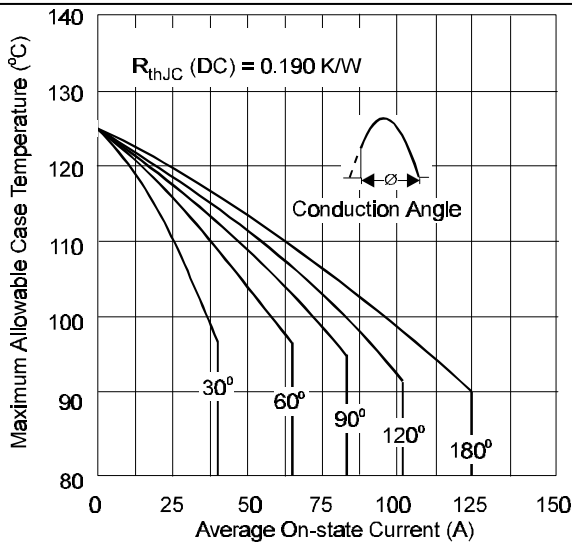


Fig. 1 - Current Ratings Characteristics

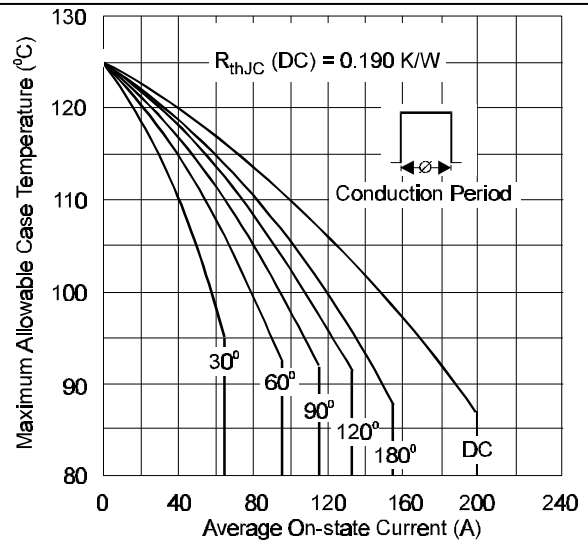


Fig. 2 - Current Ratings Characteristics

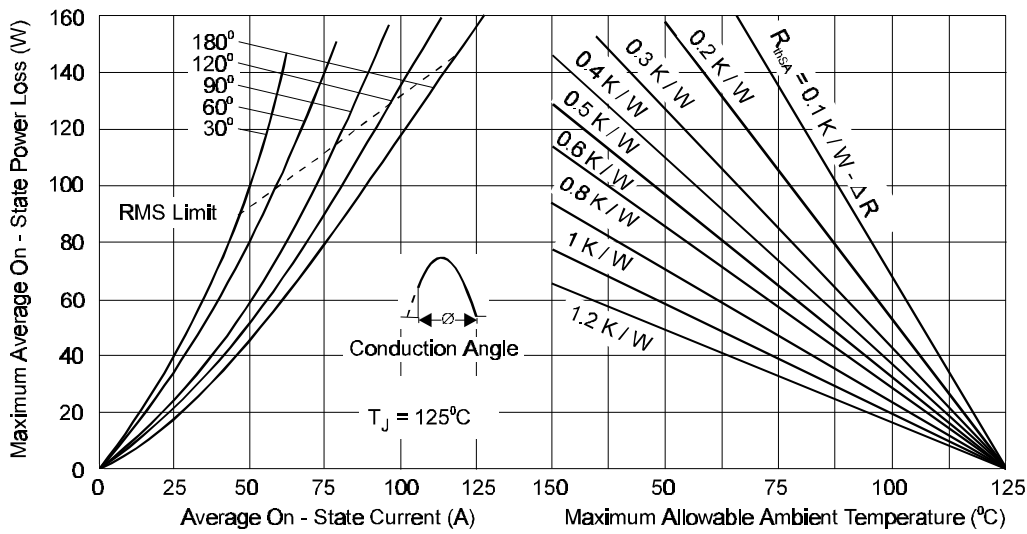


Fig. 3 - On-State Power Loss Characteristics

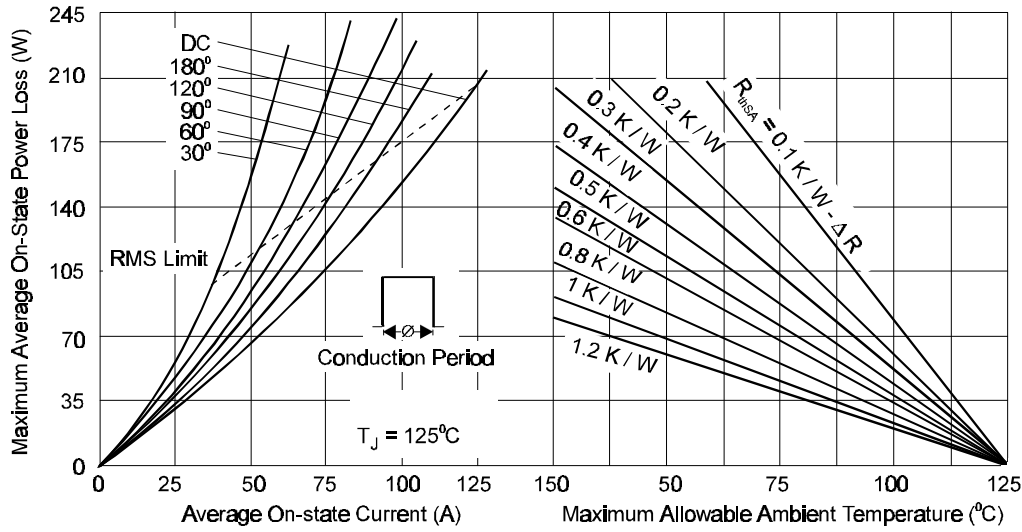


Fig. 4 - On-State Power Loss Characteristics

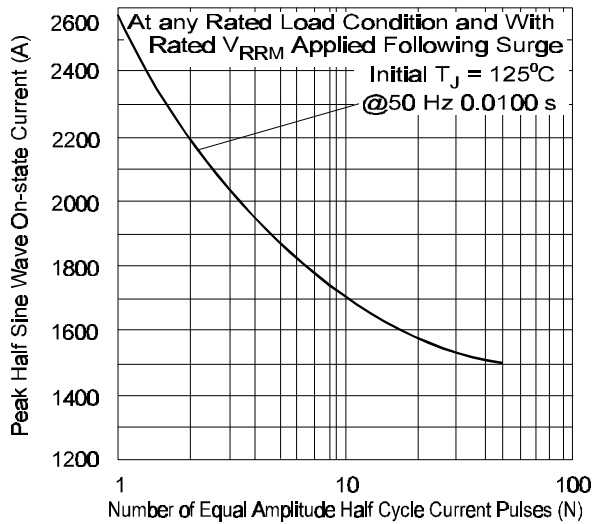


Fig. 5 - Maximum Non-Repetitive Surge Current

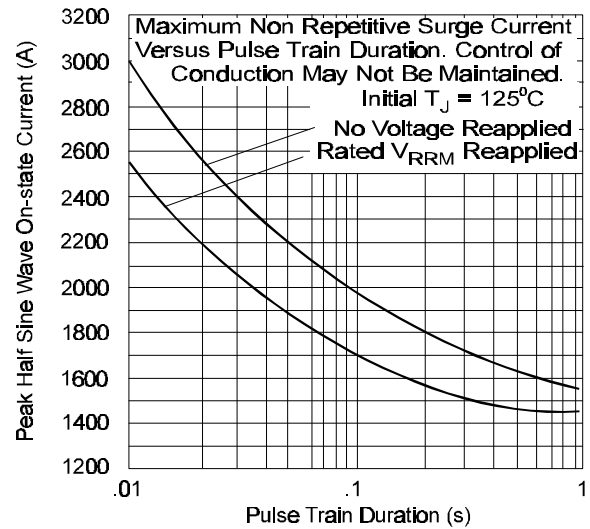


Fig. 6 - Maximum Non-Repetitive Surge Current

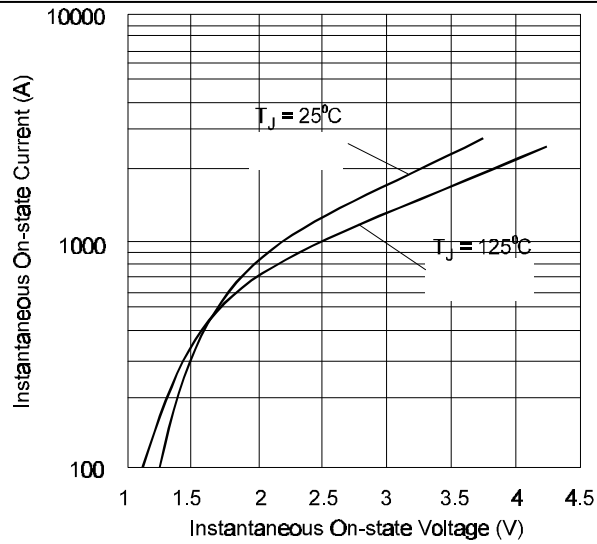


Fig. 7 - On-state Voltage Drop Characteristics

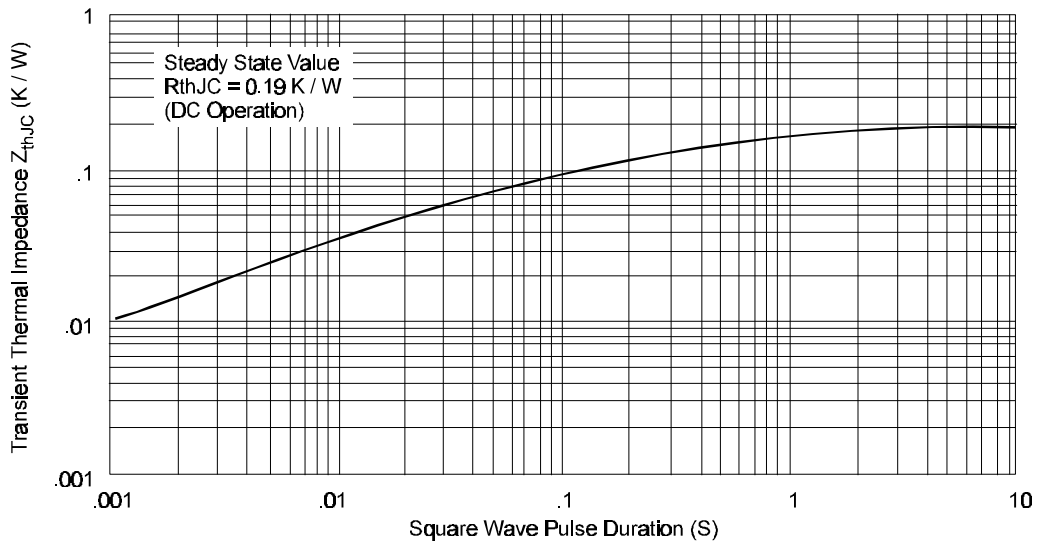
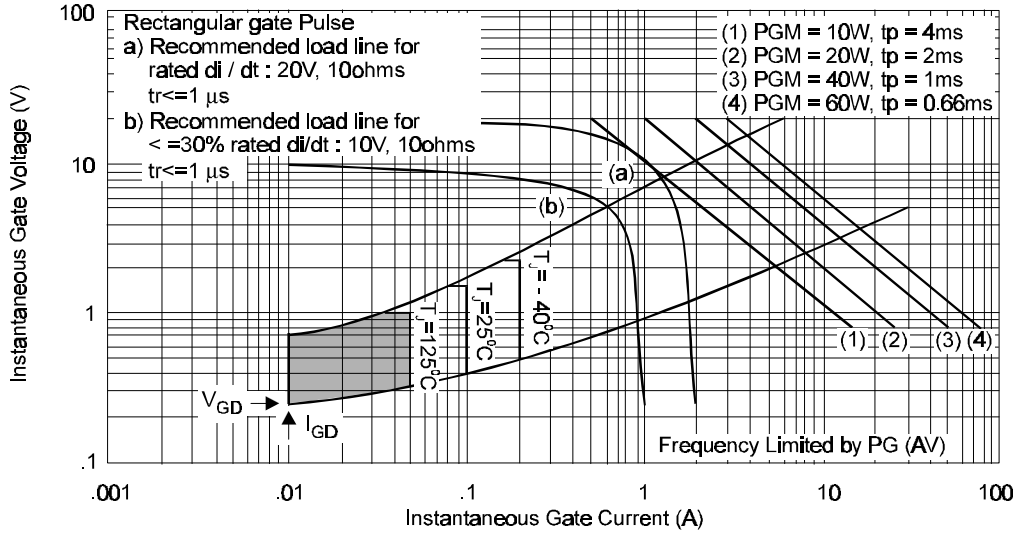
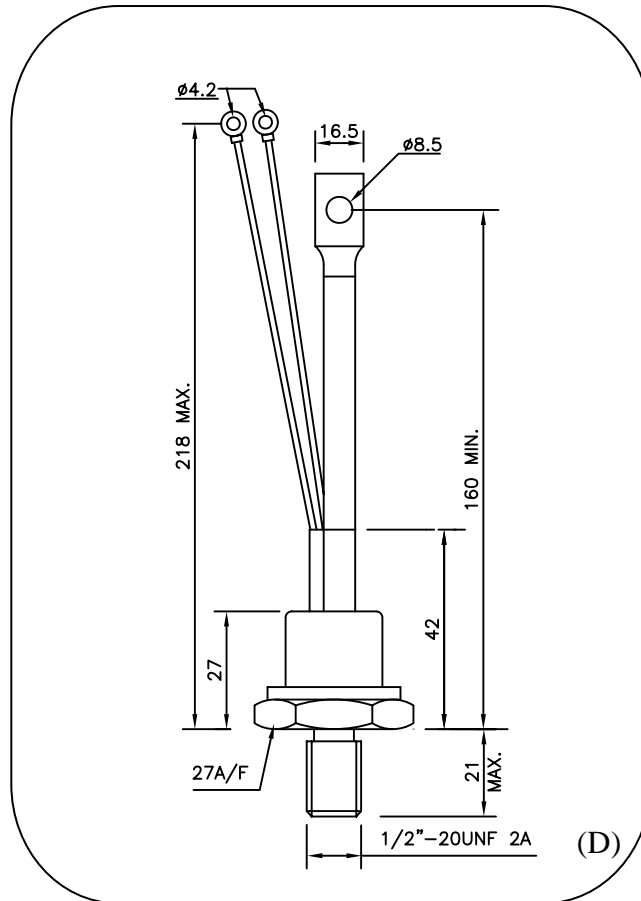


Fig. 8 - Thermal Impedance  $Z_{thJC}$  Characteristics



**Fig. 9 - Gate Characteristics**

**PACKAGE OUTLINE**



All dimension are in mm .

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