

FEATURES

- Creamic housing
- High di/dt & dv/dt capabilities.
- Voltage grade upto 2800V

TYPICAL APPLICATIONS

- DC Motor control
- Controlled rectifiers
- AC Controllers

TECHNICAL DATA

DEVICE TYPE	V_{DRM}/V_{RRM} (V)	V_{RSM} (V)
T350E120	1200	1300
T350E160	1600	1700
T350E280	2800	2900



SYMBOL	CONDITIONS	VALUES
I_{TAV}	Sin. 180; $T_{case} = 75\text{ }^{\circ}\text{C}$	350 amp.
I_{RMS}	$T_a = 45\text{ }^{\circ}\text{C}$	550 amp.
I_{TSM}	$T_{vj} = 25\text{ }^{\circ}\text{C}$; 10ms	9000 amp.
I^2t	$T_{vj} = 25\text{ }^{\circ}\text{C}$	405 KA ² S
I_{RRM}/I_{DRM}	$T_{vj} = 25\text{ }^{\circ}\text{C}$ $T_{vj} = 125\text{ }^{\circ}\text{C}$	10 mA 50 mA
V_T	$T_{vj} = 25\text{ }^{\circ}\text{C}$ ($I_T = 1000\text{ Amp.}$); max	1.55 V
di/dt		1000 A/us
dv/dt		500V/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	0.09 $^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	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		40 Nm
Weight	Approx.	540 gm
Package Outline		F

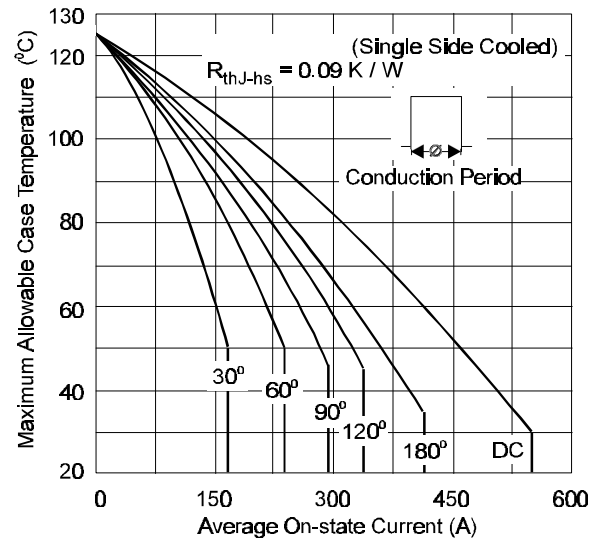
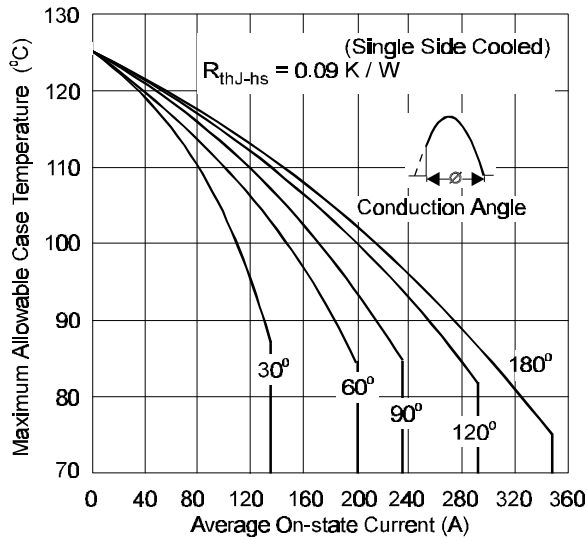


Fig. 2 - Current Ratings Characteristics

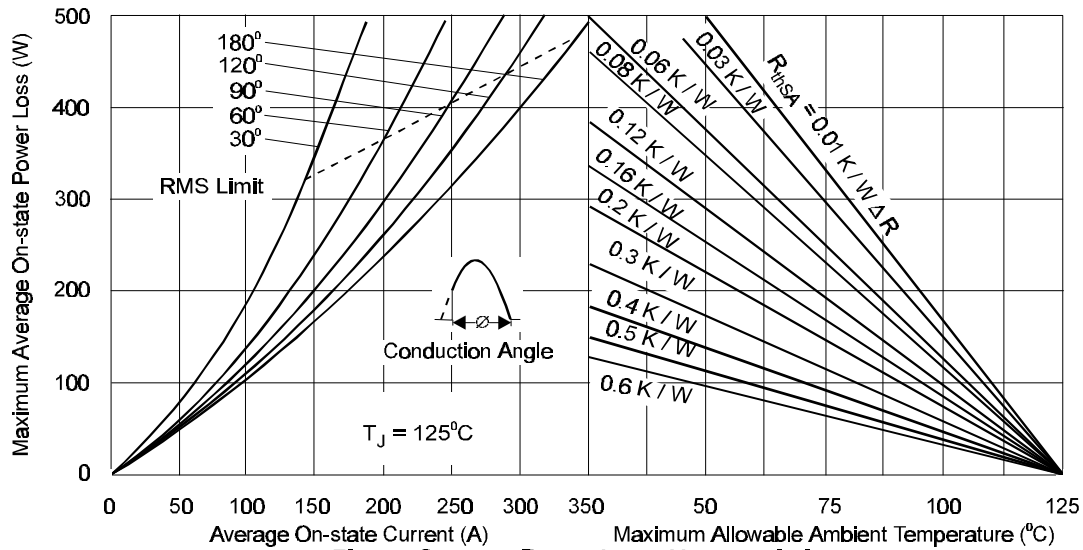


Fig. 5 - On-state Power Loss Characteristics

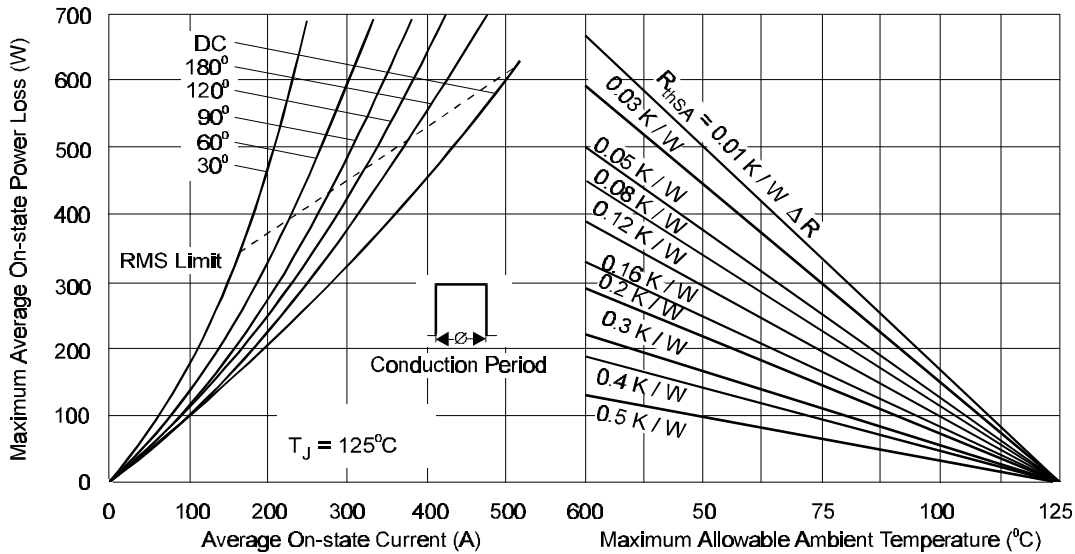


Fig. 6 - On-state Power Loss Characteristics

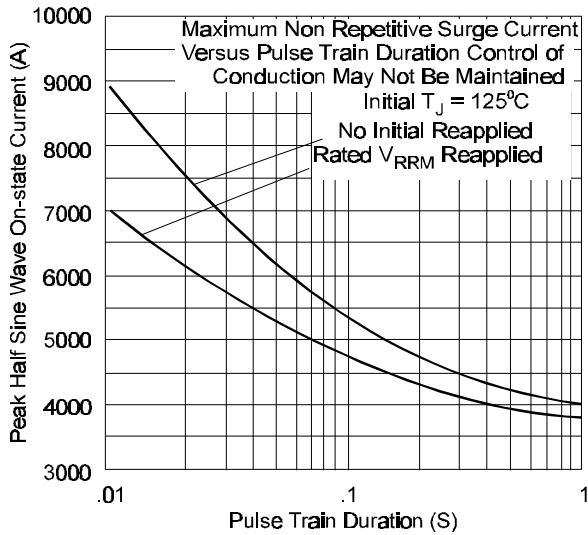


Fig. 10 - Maximum Non-Repetitive Surge Current

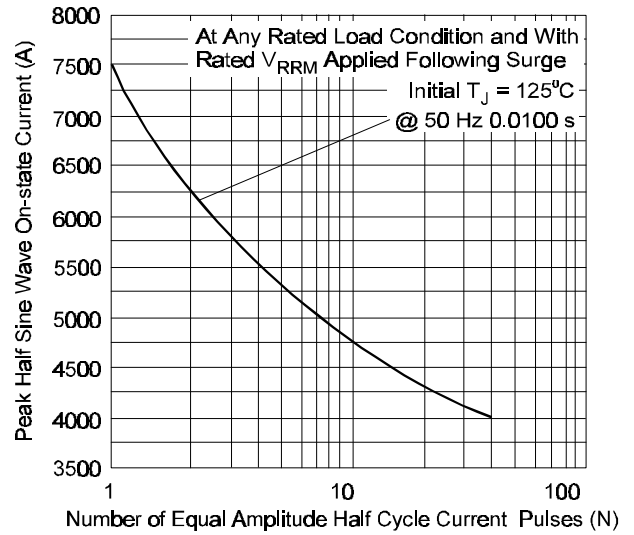


Fig. 8 - Maximum Non-Repetitive Surge Current

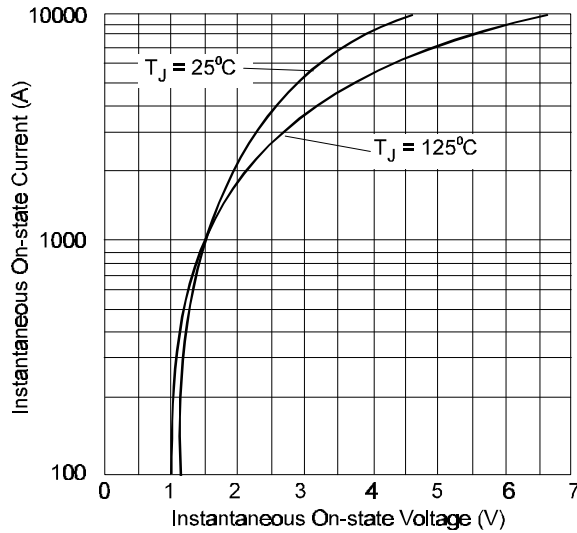


Fig. 12 - On-state Voltage Drop Characteristics

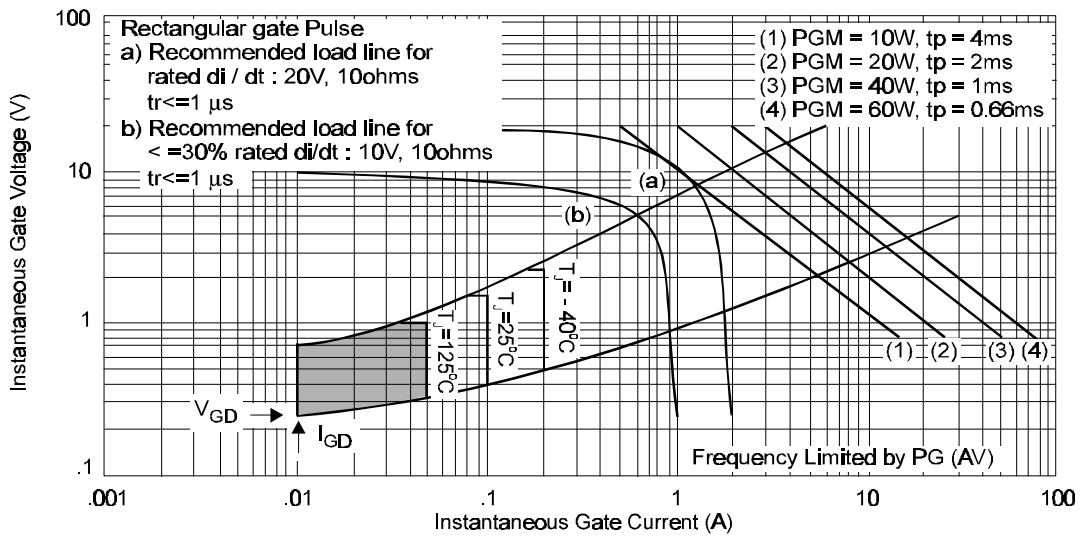
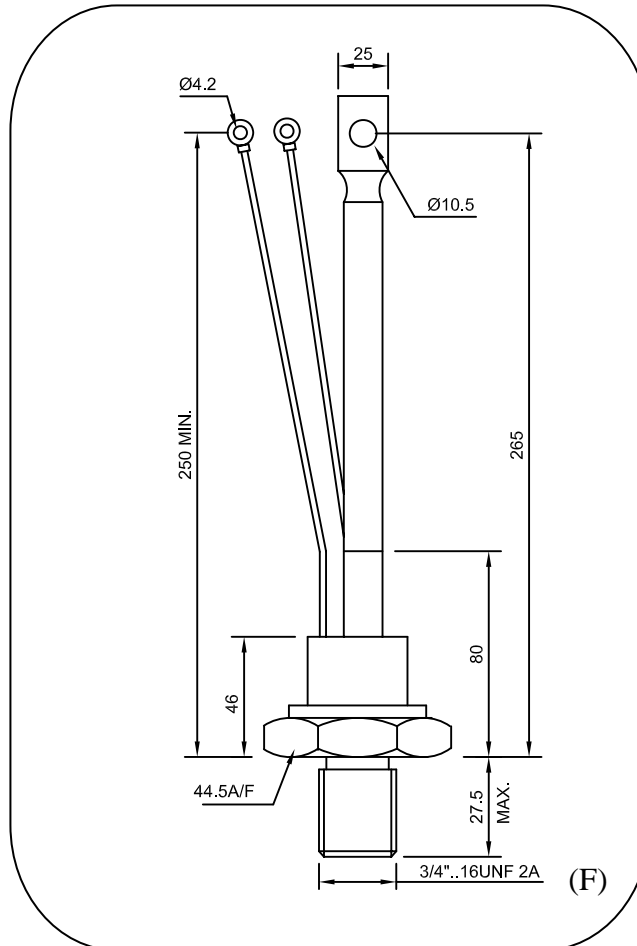


Fig. 14 - Gate Characteristics

PACKAGE OUTLINE



All dimension are in mm .

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