



Module Type

Diode Maximum Ratings

Symbol	Item	Conditions	Values	Units
V_{RM}	Reverse Maximum Voltage	$V_{RM} \leq V_{RM} \text{ (at } I_{FM} = 0 \text{)}$	1000	V
V_{SM}	Surge Reverse Voltage	$V_{SM} \leq V_{SM} \text{ (at } I_{FM} = 0 \text{)}$	1000	V
I_{FM}	Forward Maximum Current	$I_{FM} \leq I_{FM} \text{ (at } V_{FM} = 0 \text{)}$	1000	mA
I_{SM}	Surge Forward Current	$I_{SM} \leq I_{SM} \text{ (at } V_{FM} = 0 \text{)}$	1000	mA
T_c	Case Temperature	$T_c \leq T_c \text{ (at } I_{FM} = 0 \text{)}$	100	°C
T_j	Junction Temperature	$T_j \leq T_j \text{ (at } I_{FM} = 0 \text{)}$	100	°C



Thyristor Maximum Ratings

Symbol	Item	Conditions	Values	Units
I_{VEX}	Forward current	$V_{MJJ} \leq U_{\theta} \cdot I_{VEX} \leq U_{\theta} \cdot I_{VEX} \cdot \rho_{\theta}$ $F \leq I_{VEX} \cdot \rho_{\theta}$	I_{VEX}	A
I_{VUT}	Reverse current	$V_{XRM} \leq I_{VUT} \leq I_{VUT} \cdot \rho_{\theta}$ $X \leq I_{VUT} \cdot \rho_{\theta}$	I_{VUT}	A
I_{C}	Control current	$I_{C} \leq I_{C} \cdot \rho_{\theta}$	I_{C}	A
X_{θ}	Thermal resistance	$X_{\theta} \leq X_{\theta} \cdot \rho_{\theta}$	X_{θ}	$^{\circ}C/W$
V_{CB}	Control voltage	$V_{CB} \leq V_{CB} \cdot \rho_{\theta}$	V_{CB}	V
V_{C*}	Control voltage	$V_{C*} \leq V_{C*} \cdot \rho_{\theta}$	V_{C*}	V
T_C	Control temperature	$T_C \leq T_C \cdot \rho_{\theta}$	T_C	$^{\circ}C$
T_{θ}	Temperature	$T_{\theta} \leq T_{\theta} \cdot \rho_{\theta}$	T_{θ}	$^{\circ}C$
I_{θ}	Thermal current	$I_{\theta} \leq I_{\theta} \cdot \rho_{\theta}$	I_{θ}	A
I_{θ}	Thermal current	$I_{\theta} \leq I_{\theta} \cdot \rho_{\theta}$	I_{θ}	A

Electrical and Thermal Characteristics

Symbol	Item	Conditions	Values			Units
			Min.	Typ.	Max.	
X_{VT}	Forward voltage	$V_{MJJ} \leq X_{VT} \leq X_{VT} \cdot \rho_{\theta}$			V_{MJJ}	V
I_{θ}	Thermal current	$I_{\theta} \leq I_{\theta} \cdot \rho_{\theta}$			I_{θ}	A
$X_{\theta V}$	Thermal resistance	$X_{\theta V} \leq X_{\theta V} \cdot \rho_{\theta}$			$X_{\theta V}$	$^{\circ}C/W$
$I_{\theta V}$	Thermal current	$I_{\theta V} \leq I_{\theta V} \cdot \rho_{\theta}$			$I_{\theta V}$	A
I_{θ}	Thermal current	$I_{\theta} \leq I_{\theta} \cdot \rho_{\theta}$			I_{θ}	A
I_{θ}	Thermal current	$I_{\theta} \leq I_{\theta} \cdot \rho_{\theta}$			I_{θ}	A



Performance Curves

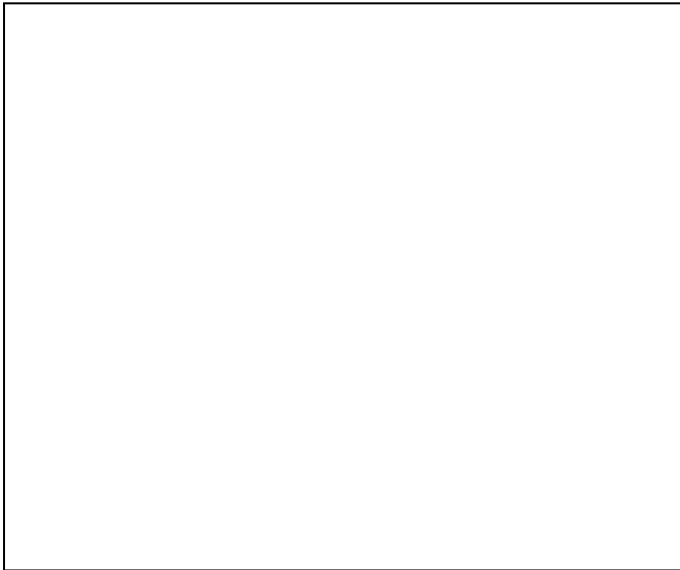


Fig1. Power dissipation

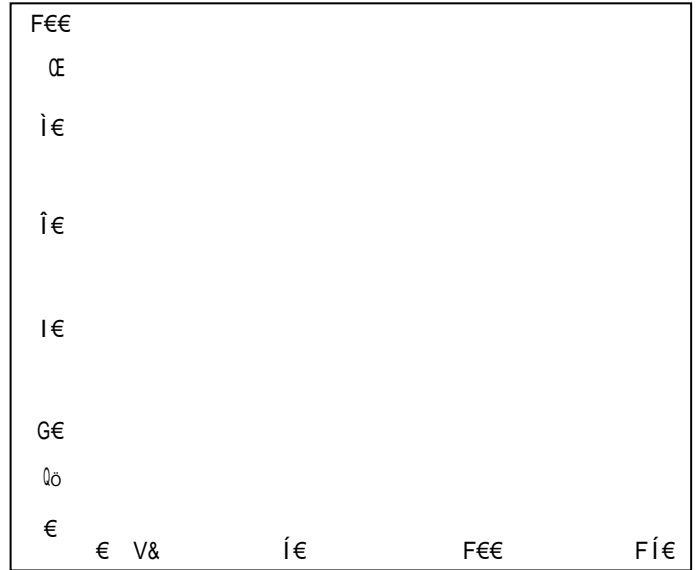


Fig2. Forward Current Derating Curve

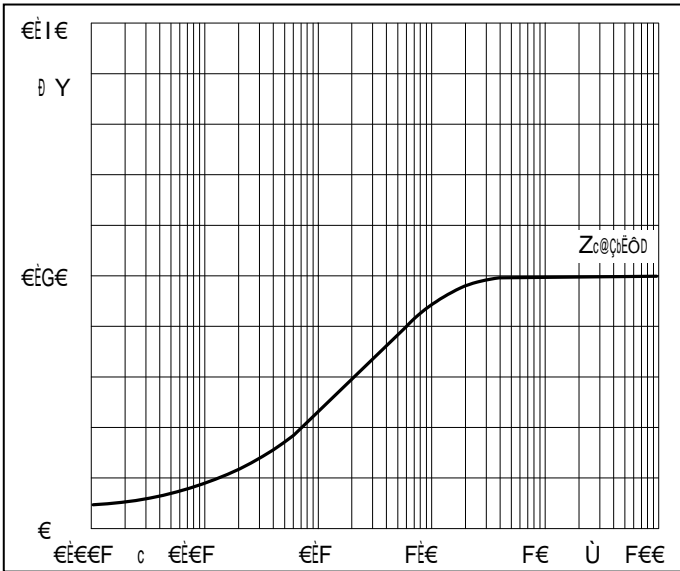


Fig3. Transient thermal impedance

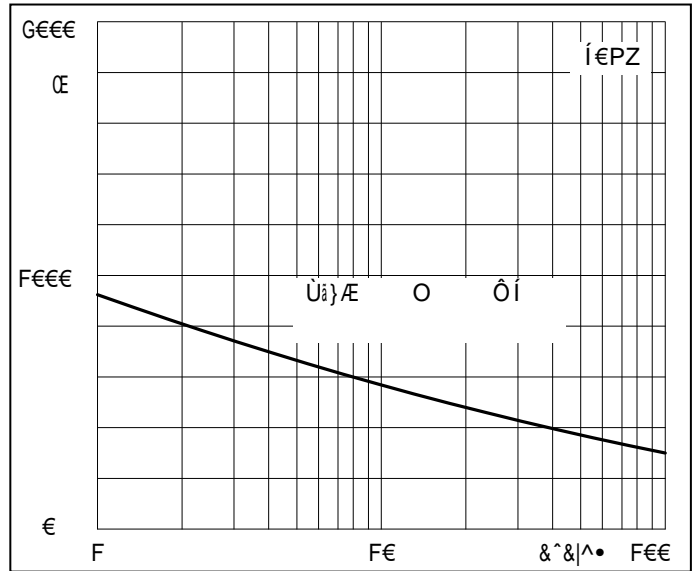


Fig4. Max Non-Repetitive Forward Surge Current

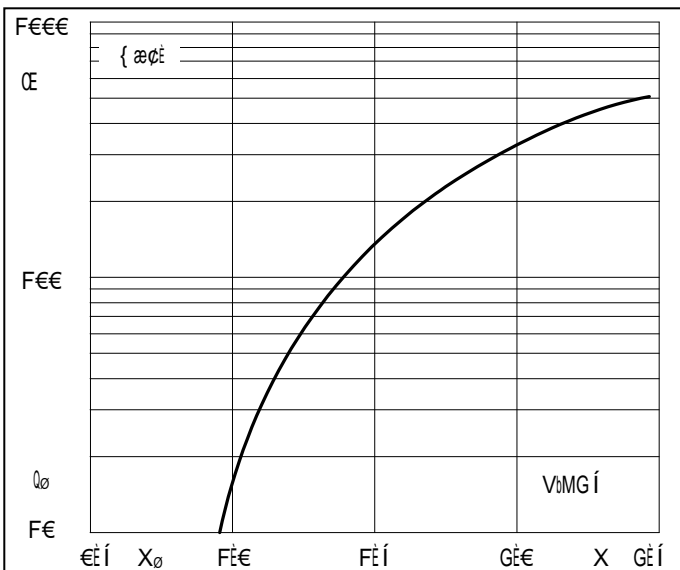


Fig5. Forward Characteristics

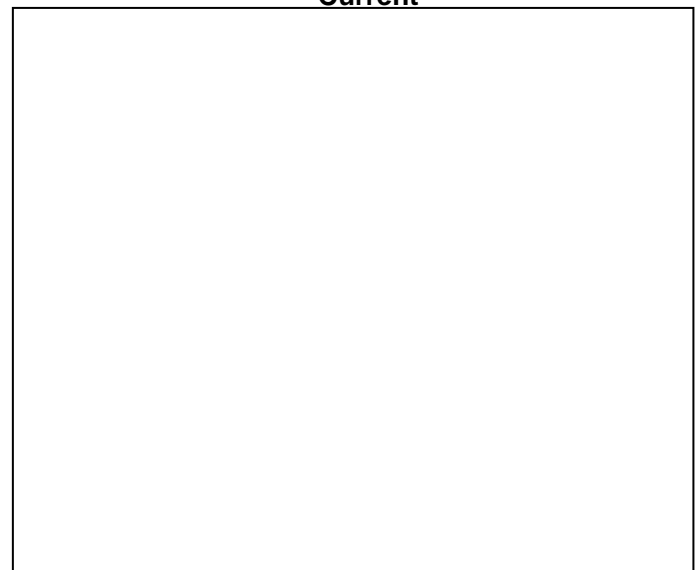


Fig6. SCR Power dissipation



Fig7. SCR Forward Current Derating Curve

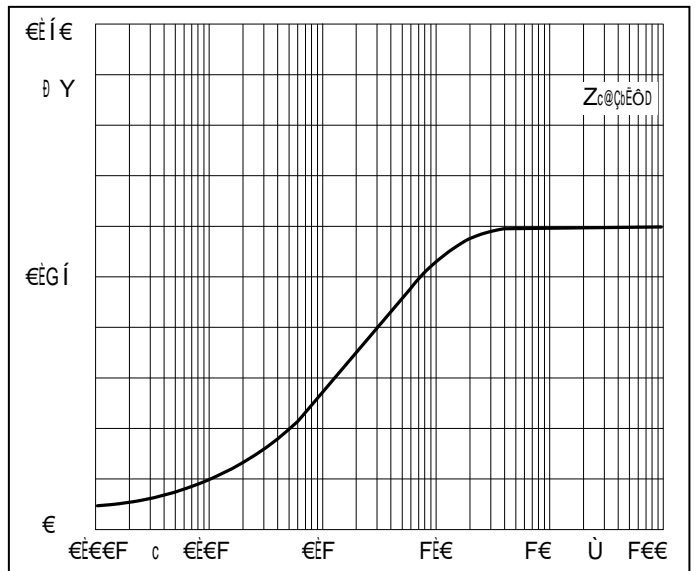


Fig8. SCR Transient thermal impedance

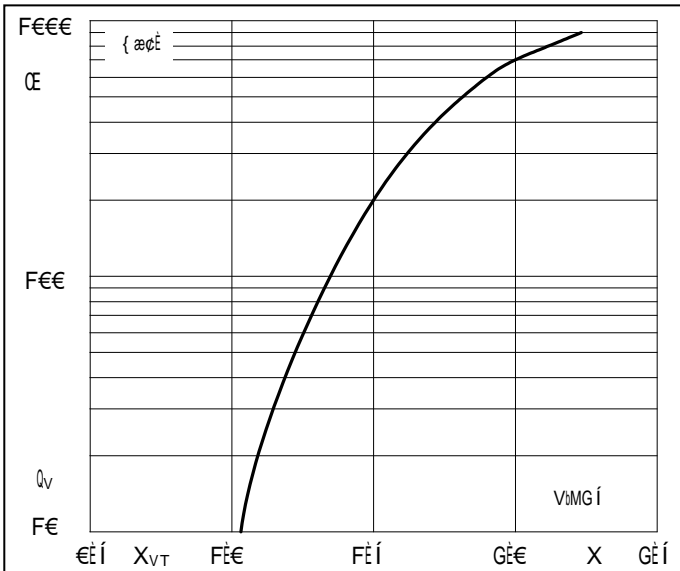


Fig9. SCR Forward Characteristics

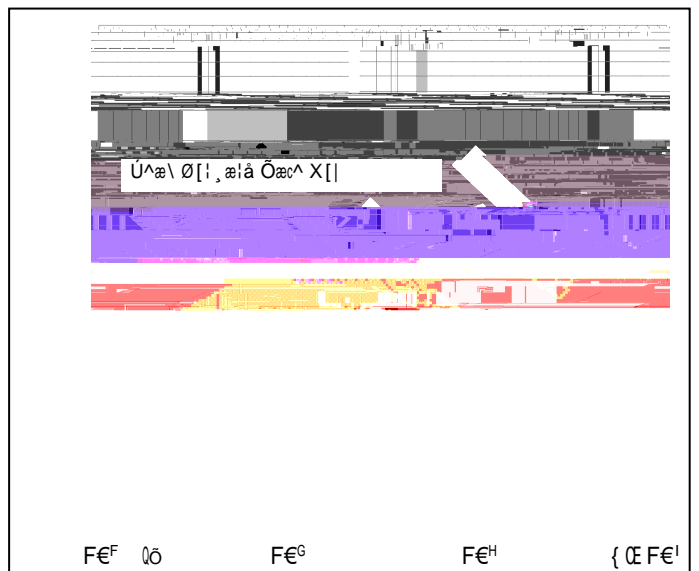
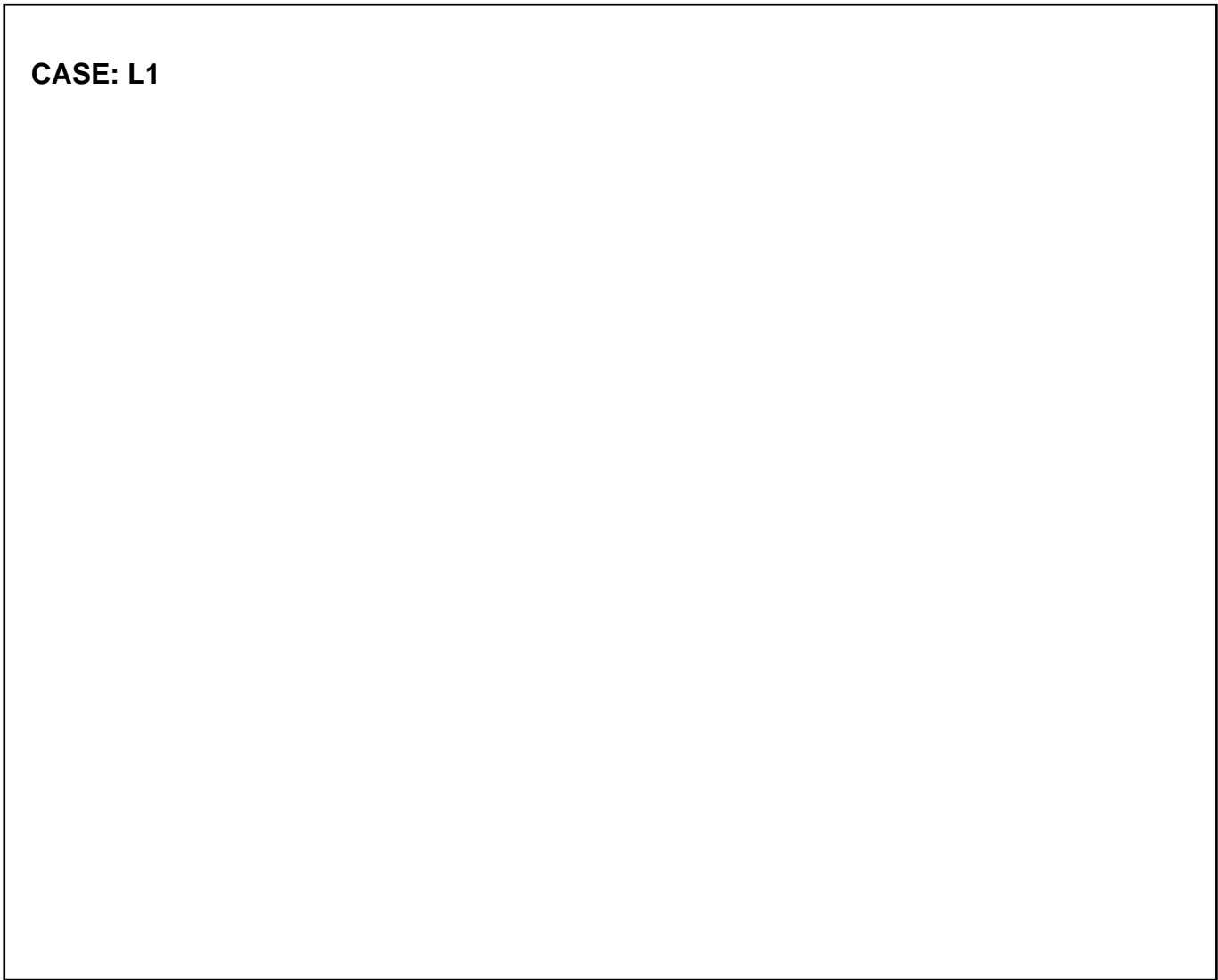


Fig10. Gate trigger Characteristics



Package Outline Information



CASE: L1

Packing Standard

Item	Length: A (mm)	Width: B (mm)	Height: C (mm)	Quantity (PCS)
Inner Box	276	258	48	6 on32 0.96 27.72 r

