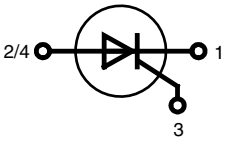
High Voltage Phase Control Thyristor

V_{DRM} = 2500 V
I_{TSM} = 200 A



TO-268 AA (D³Pak)

4 = Backside = Anode

Thyristor				
Symbol	**Conditions**		**Maximum Ratings**	
V_{DRM}			2500	V
V_{DSM}			2500	V
$V_{RRM / RSM}$			1650	V
I_{TSM}	sine 180°; t = 10 ms; V_R = 0 V; T_{VJ} = 25°C		200	A
$(di/dt)_{cr}$	f = 50 Hz; t_p = 200 µs; V_D = 2000 V di_G/dt = 0.45 A/µs; I_G = 0.45 A non repetitive; I_T = 45 A		150	A/µs
$(dv/dt)_{cr}$	V_D = 2200 V R_{GK} = ∞; method 1 (linear voltage rise)		5000	V/µs
Symbol	**Conditions**		**Characteristic Values**	
			min.	max.
V_T	I_T = 45 A	T_{VJ} = 25°C		3.0 V
V_{GT} I_{GT}	V_D = 6 V	T_{VJ} = 25°C		2.5 V 250 mA
V_{GD} I_{GD}	V_D = $^2/_3$ V_{DRM}	T_{VJ} = 25°C		0.2 V 5 mA
I_L	t_p = 10 µs; V_D = 6 V I_G = 0.45 A; di_G/dt = 0.45 A/µs	T_{VJ} = 0°C		700 mA
I_H	V_D = 6 V; R_{GK} = ∞	T_{VJ} = 0°C T_{VJ} = 70°C	 55	300 mA mA
t_q	I_T = 20 A; t_p = 300 µs; di/dt = -20 A/µs V_R = 10 V; dv/dt = 20 V/µs V_D = 800 V	 T_{VJ} = 70°C		100 µs
$I_{RRM / DRM}$	V_R = V_{RRM}; V_D = V_{DRM}	T_{VJ} = 25°C T_{VJ} = 70°C		50 µA 200 µA
$I_{DSM / RSM}$	V_R = V_{RSM}; V_D = V_{DSM}	T_{VJ} = 70°C		2 mA
R_{thJC}				0.80 K/W

Features

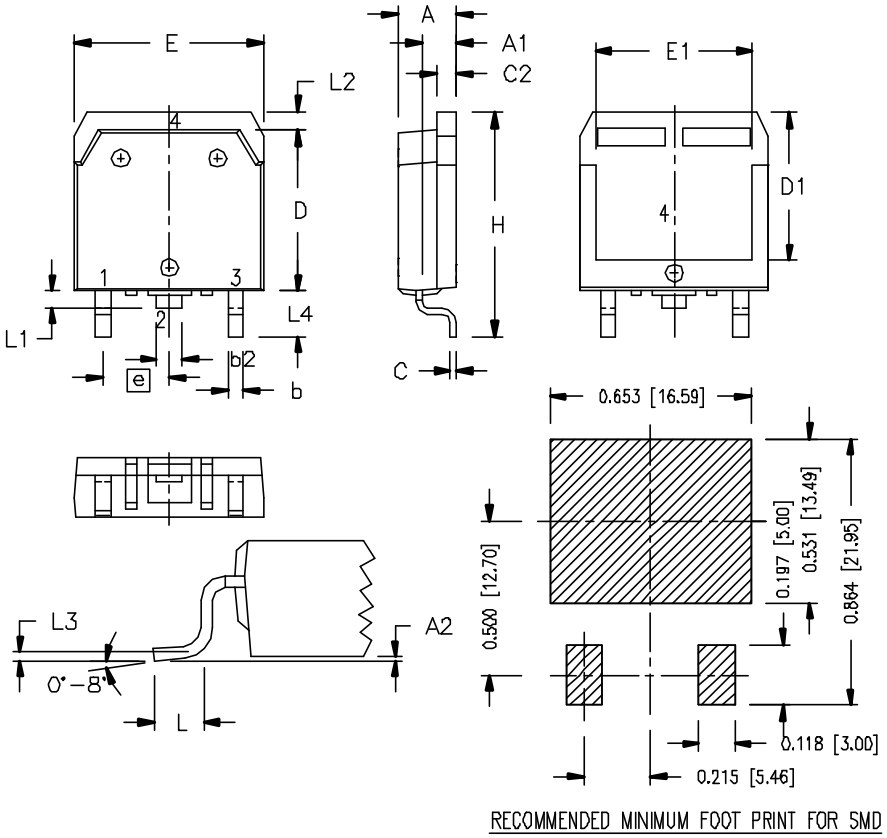
- high voltage thyristor
  - for line frequency
  - chip technology for long term stability
  - planar glass passivated
- International standard package JEDEC TO-268
- Epoxy meets UL 94V-0

Applications

- controlled rectifiers
  - power supplies
  - drives
- AC switches
- capacitor discharge control
  - flash tubes
  - X-ray and laser generators

Component		
Symbol	**Conditions**	**Maximum Ratings**
T_{VJ}		-10 ... +70 °C
T_{stg}		-40 ... +70 °C
F_C	Mounting force with clip	20...120 N

Symbol	**Conditions**	**Characteristic Values**			
		min.	**typ.**	**max.**	
R_{thCH}	with heatsink compound		0.15		K/W
Weight			5		g



Dim.	Millimeter		Inches	
	min	max	min	max
A	4.90	5.10	0.193	0.201
A1	2.70	2.90	0.106	0.114
A2	0.02	0.25	0.001	0.100
b	1.15	1.45	0.045	0.057
b2	1.90	2.10	0.075	0.083
C	0.40	0.65	0.016	0.026
C2	1.45	1.60	0.057	0.063
D	13.80	14.00	0.543	0.551
D1	12.40	12.70	0.488	0.500
E	15.85	16.05	0.624	0.632
E1	13.30	13.60	0.524	0.535
e	5.45 BSC		0.215 BSC	
H	18.70	19.10	0.736	0.752
L	2.40	2.70	0.094	0.106
L1	1.20	1.40	0.047	0.055
L2	1.00	1.15	0.039	0.045
L3	0.25 BSC		0.100 BSC	
L4	3.80	4.10	0.150	0.161

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for SCRs ***category:***

Click to view products by IXYS ***manufacturer:***

Other Similar products are found below :

NTE5428 T1500N16TOF VT TT162N16KOF-A TT162N16KOF-K TT330N16AOF VS-22RIA20 VS-2N685 057219R T1190N16TOF VT T1220N22TOF VT T201N70TOH T700N22TOF T830N18TOF TT250N12KOF-K VS-16RIA120 VS-110RKI40 NTE5427 NTE5442 TT251N16KOF-K VS-22RIA100 VS-16RIA40 TD250N16KOF-A VS-ST110S16P0 T930N36TOF VT T2160N24TOF VT T1190N18TOF VT T1590N28TOF VT 2N1776A T590N14TOF NTE5375 NTE5460 NTE5481 NTE5512 NTE5514 NTE5518 NTE5519 NTE5529 NTE5553 NTE5555 NTE5557 NTE5567 NTE5570 NTE5572 NTE5574 NTE5576 NTE5578 NTE5579 NTE5589 NTE5592 NTE5598