



Features

- High speed
- Inverting
- High input impedance
- High output impedance
- Voltage follower

Product Summary

Applications

- Buffer
- Logic
- Comparator

Absolute Maximum Ratings

$T_c = 25^\circ\text{C}$

Parameter	Conditions	Symbol	Values	Unit
V _{OH}	T _y = 25°C	V _{OH}	1600	V
V _{OL}	T _y = 25°C	V _{OL}	1600	V

Note: - V_{OH} is the output voltage when the output is in the high state. T_y



Electrical Characteristics

$C = 25^{\circ}C$

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Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
V_T	$I_T=210A, t=380\mu s$	V_T			1.80	V
I_{D1}	$V = V_{RR}, T_j = 25$	I_{D1}			100	μA
	$V = V_{RR}, T_j = 125$				30	μA
I_{D2}	$V_R = V_{RR}, T_j = 25$	I_{D2}			100	μA
	$V_R = V_{RR}, T_j = 125$				30	μA
V_D	$T_j = 125$	V_D			$F_{0.92}$	V
r_T	$T_j = 125$	r_T			3.3	m
I_{GT}	$V = 12V, L=30$	I_{GT}	20		120	mA
I_H	$I_T=1A$	I_H			250	mA
I_L	$I_G=1.2 I_{GT}$	I_L			300	mA
t_{CH1}	$V = 2/3V_{RR}, T_j=125$ G_{OP}	t_{CH1}	1000			V/ μs
V_{GT}	$V = 12V, L=30$	V_{GT}			1.8	V
V_G	$V = 0.5V_{RR}, T_j=125$	V_G	0.25			V

Thermal Characteristics

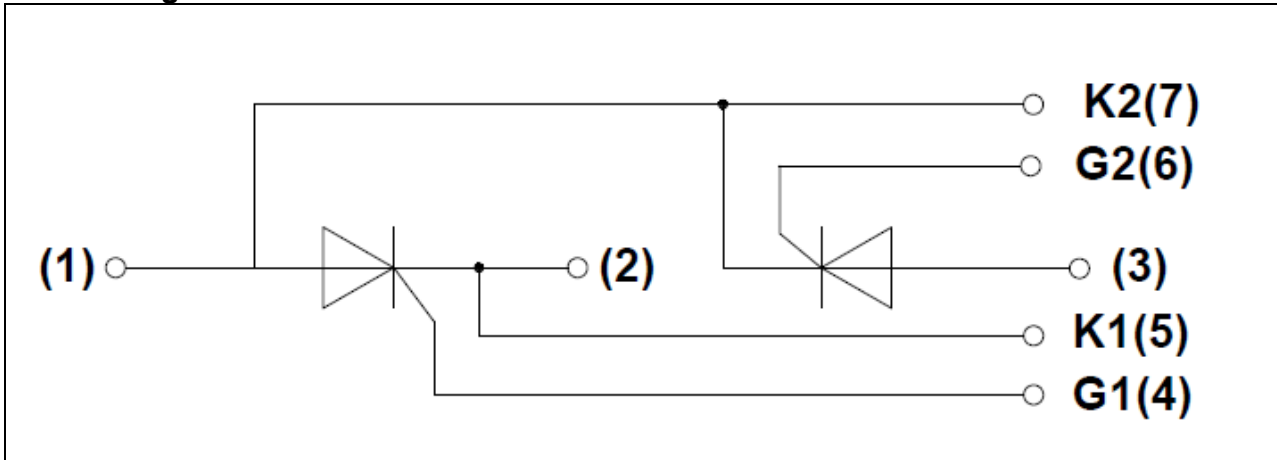
$C = 25^{\circ}C$

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Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
$R_{th(j-c)}$	P, T_j	$R_{th(j-c)}$		0.35		/W
$R_{th(j-a)}$	P, T_j	$R_{th(j-a)}$		0.18		/W
M	M_{M5} M5	M	4.25		5.75	Nm
	E_{M5} M5		2.55		3.45	Nm

Circuit Diagram



Package Outlines (mm)

