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WR0553 M M E D b l i

Thyristor in a TO-220 Plastic Package.

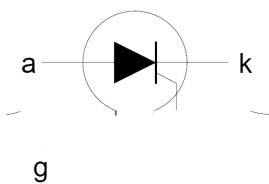
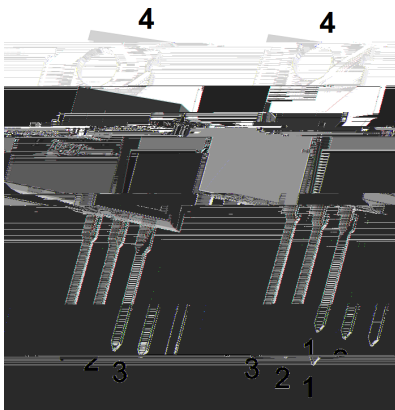
$\frac{1}{\sqrt{2}} \begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$

Glass passivated thyristors in a plastic envelope.

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[illegible]

Use in applications requiring high bidirectional blocking voltage capability and high thermal cycling performance. Typical applications include motor control industrial and domestic lighting, heating and static switching.

$$\Gamma \vdash \tilde{\alpha} = \varepsilon$$
 $\tilde{a} \mid \tilde{u}$ PIN1 χ Cathode PIN 2,4 χ Anode PIN 3 χ Gate

4. H₂

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See Marking Instructions.

Parameter	Symbol	Rating	Unit
Repetitive peak off-state/reverse voltages($T_j=25\text{ }^{\circ}\text{C}$)	$V_{\text{DSM}}/V_{\text{RRM}}$	650	V
Average on-state current ($T_c=105\text{ }^{\circ}\text{C}$)	$I_{\text{T(AV)}}$	8	A
RMS on-state current($T_c=105\text{ }^{\circ}\text{C}$)	$I_{\text{T(RMS)}}$	12	A
Non repetitive surge peak on-state current ($t_p=10\text{ms}$, $T_j=25\text{ }^{\circ}\text{C}$)	I_{TSM}	120	A
Non repetitive surge peak on-state current ($t_p=8.3\text{ms}$, $T_j=25\text{ }^{\circ}\text{C}$)		132	
Peak gate current($t_p=20\mu\text{s}$ $T_j=125\text{ }^{\circ}\text{C}$)	I_{GM}	2.0	A
Average gate power dissipation($T_j=125\text{ }^{\circ}\text{C}$)	$P_{\text{G(AV)}}$	0.5	W
Operating junction temperature range	T_j	$-40\text{ }^{\circ}\text{C}\sim 125\text{ }^{\circ}\text{C}$	$^{\circ}\text{C}$
Storage junction temperature range	T_{stg}	$-40\text{ }^{\circ}\text{C}\sim 150\text{ }^{\circ}\text{C}$	$^{\circ}\text{C}$
Junction to ambient(AC)	$R_{\text{th(j-a)}}$	60	$^{\circ}\text{C/W}$
Junction to case for(AC)	$R_{\text{th(j-c)}}$	1.3	

Symbol

Test Conditions

Rating

u Ě Ō Ľ f



↓ \$ 7 W'E V f 03

- ب " X
- 1 1 25 K 150 t i H 60 K 90sec;
- 2 S 255 ° 5 t i H 'Y 5 ° 0.5sec;
- 3 i ' 2 2 K 10 t /sec.

- Note:
- 1.Preheating:25~150 t , Time:60~90sec.
- 2.Peak Temp.:255 ° 5 t , Duration:5 ° 0.5sec.
3. Cooling Speed: 2~10 t /sec.

1 0 q -Y T

□ y x 270 ° 5 t 'H 10 ° 1 sec.

Temp.:270±5 Time:10±1 sec

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"Q T Y E / BULK

Package Type	Units					Dimension (unit mm³)		
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

~ 1 Y E / TUBE

Package Type

10 1 T (unit