WR0553 ṂṂ Ł ɒ ᵇ ˡ í

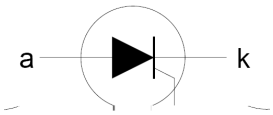
Thyristor in a TO-220 Plastic Package.

ɧ ᑫ ﾍ ɾ ד אַ ק ⁼ ע Ṃ Ł

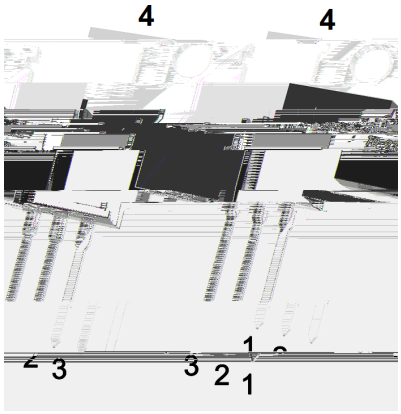
Glass passivated thyristors in a plastic envelope.

ǯ ɭ Ẓ ₹ ɭ ∂ ᵇ ב ɔ я ʼH ᴩ ǐ ד ⁼ ב ѽ ♬ ჯ ʺѺ ؤ ³ ı Ʊ Ɛ ʒ Ẓ ₹ ɾ ز ز í ˙ Ṫ ў ⁼ Ḳ İ Ł ˝ ɾ ♬ ⁼ ˷ ɔ Â ʜ

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.



g



PIN1 χ Cathode PIN 2,4 χ Anode PIN 3 χ Gate

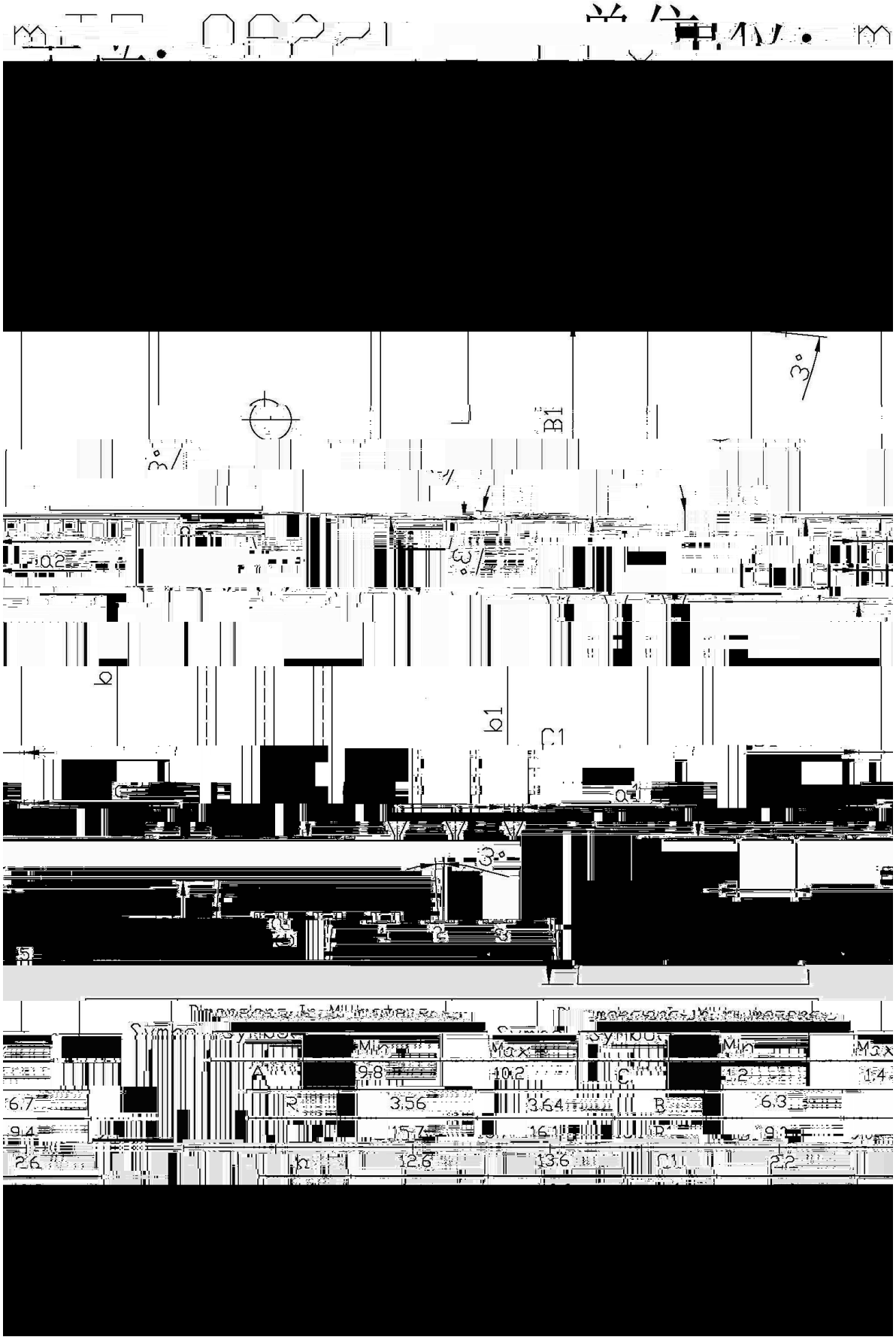
ȣ ᴍ ヽ ب ˝

See Marking Instructions.

v ¨Q Parameter	¬ N Symbol	¨Q Ö Rating	D Ц Unit
Repetitive peak off-state/reverse voltages(T_j=25 ł)	V_{DRM}/V_{RRM}	650	V
Average on-state current (T_C 105)	$I_{T(AV)}$	8	A
RMS on-state current(T_C=105 ł)	$I_{T(RMS)}$	12	A
Non repetitive surge peak on-state current (tp=10ms, Tj=25)	I_{TSM}	120	A
Non repetitive surge peak on-state current (tp=8.3ms, Tj=25)		132	
Peak gate current(t_p =20 s T_j=125 ł)	I_{GM}	2.0	A
Average gate power dissipation(T_j=125 ł)	$P_{G(AV)}$	0.5	W
Operating junction temperature range	T_j	-40 125	ł
Storage junction temperature range	T_{stg}	-40 150	ł
Junction to ambient(AC)	$R_{th(j-a)}$	60	ł /W
Junction to case for(AC)	$R_{th(j-c)}$	1.3	

¬ N Ы ; Т ¨Q Ö

Symbol Test Conditions


B1
b
b1
C1
Min
Max
9.8
10.2
6.7
3.56
3.64
6.3
9.4
15.7
16.1
2.6
12.6
13.6
2.2

ب ˝ χ

1 Ĺ ♬ □ ẙ 25 Ḱ 150 ɬ ı ˋH ڑ 60 Ḱ 90sec;

2 Š Ë □ ẙ 255 ° 5 ɬ ı ˋH ڑ ˋY ʌ ㎞ 5 ° 0.5sec;

3 ì ˙ ϒ ˛ ɔ ෯ ẙ ㎞ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:25~150 ɬ , Time:60~90sec.

2.Peak Temp.:255 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

□ ẙ χ 270 ° 5 ɬ ˋH ڑ χ 10 ° 1 sec. Temp.:270±5 Time:10±1 sec

ˇQ ţ ɣ Ł / BULK

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

˛ ϒ Ł / TUBE

Package Type

Ţ10 1 (unit