

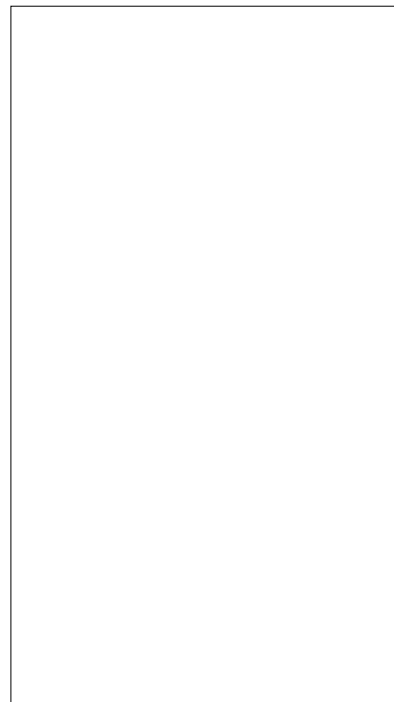


## JCT616H 16A SCR

Rev.A.1.1

### DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT616H of silicon controlled rectifiers provides high  $dV/dt$  rate with strong resistance to electromagnetic interference. It is especially recommended for use on solid state relay, motorcycle, power charger, T-tools etc. Package TO-251 is RoHS compliant.



### MAIN FEATURES

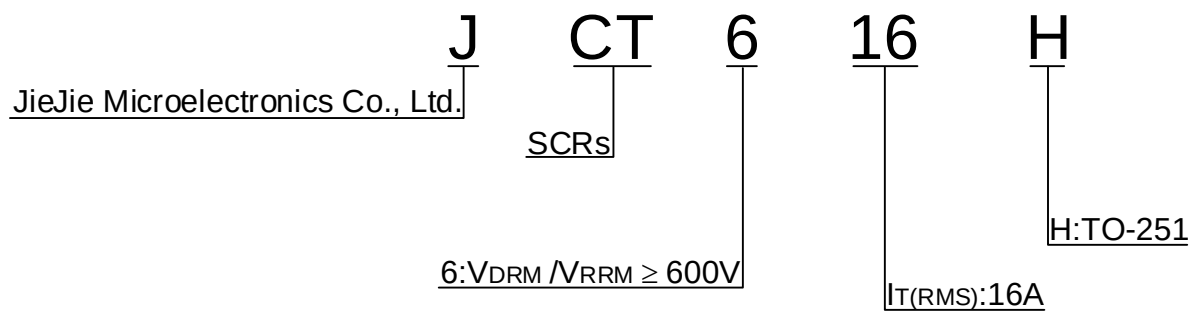
### ABSOLUTE MAXIMUM RATINGS

| Parameter                            | Symbol    | Value   | Unit |
|--------------------------------------|-----------|---------|------|
| Storage junction temperature range   | $T_{stg}$ | -40-150 |      |
| Operating junction temperature range | $T_j$     | -40-125 |      |

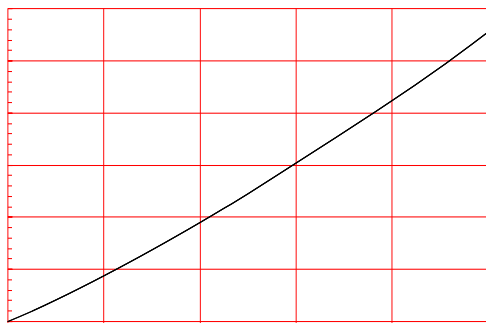
JCT616H

|                                                                      |             |    |   |
|----------------------------------------------------------------------|-------------|----|---|
| Average gate power dissipation ( $T_j=125\text{ }^{\circ}\text{C}$ ) | $P_{G(AV)}$ | 1  | W |
| Peak gate power                                                      | $P_{GM}$    | 20 | W |

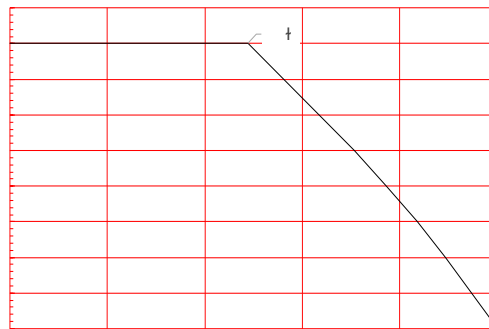
## ORDERING INFORMATION



**FIG.1:** Maximum power dissipation versus RMS on-state current



**FIG.2:** RMS on-state current versus case temperature





**ORDERING INFORMATION**

| Order code | Voltage<br>$V_{\text{DRM}}/V_{\text{RRM}}$ (V) | IGT(mA) | Package | Base qty.<br>(pcs) | Delivery<br>mode |
|------------|------------------------------------------------|---------|---------|--------------------|------------------|
| JCT616H    | 600                                            | 15      | TO-251  | 80                 | Tube             |

**Document Revision History**

| Date         | Revision | Changes                        |
|--------------|----------|--------------------------------|
| Apr.13, 2023 | A. .0    | Last update                    |
| Oct.16, 2025 | A.1.1    | Revise PACKAGE MECHANICAL DATA |



**JCT616H**

**JieJie Microelectronics Co., Ltd.**