

**Features:**

- n Isolated mounting base 2500V~
- n Solder joint technology with Increased power cycling capability
- n Space and weight saving

Typical Applications:

- n Inverter
- n Inductive heating
- n Chopper

| V _{RRM} | Type & Outline |
|------------------|----------------|
| 600V | MDS75-06-232H5 |
| 800V | MDS75-08-232H5 |
| 1000V | MDS75-10-232H5 |
| 1200V | MDS75-12-232H5 |
| 1400V | MDS75-14-232H5 |
| 1600V | MDS75-16-232H5 |
| 1800V | MDS75-18-232H5 |

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | T _j (°C) | VALUE | | | UNIT |
|----------------------|--|--|---------------------|-------|------|------|----------------------------------|
| | | | | Min | Type | Max | |
| I _O | DC output current | Three-phase full wave rectifying circuit, T _C =100°C | 150 | | | 75 | A |
| I _{RRM} | Repetitive peak current | at V _{RRM} | 150 | | | 8 | mA |
| I _{FSM} | Surge forward current | 10ms half sine wave | 150 | | | 0.5 | kA |
| I ² t | I ² t for fusing coordination | V _R =0 | | | | 1.25 | 10 ³ A ² s |
| V _{FO} | Threshold voltage | | 150 | | | 0.7 | V |
| r _F | Forward slope resistance | | | | | 5.0 | mW |
| V _{FM} | Peak forward voltage | I _{FM} =75A | 25 | | | 1.25 | V |
| R _{th(j-c)} | Thermal resistance Junction to case | Single side cooled, per total | | | | 0.24 | °C/W |
| R _{th(c-h)} | Thermal resistance case to heatsink | Single side cooled, per total | | | | 0.07 | °C/W |
| V _{iso} | Isolation voltage | 50Hz,R.M.S,t=1min,I _{iso} :1mA(max) | | 2500 | | | V |
| F _m | Terminal connection torque(M5) | | | 2.5 | | 4.0 | N·m |
| | Mounting torque(M5) | | | 2.5 | | 4.0 | N·m |
| T _{vj} | Junction temperature | | | -40 | | 150 | °C |
| T _{stg} | Stored temperature | | | -40 | | 125 | °C |
| W _t | Weight | | | | 135 | | g |
| Outline | 232H5 | | | | | | |

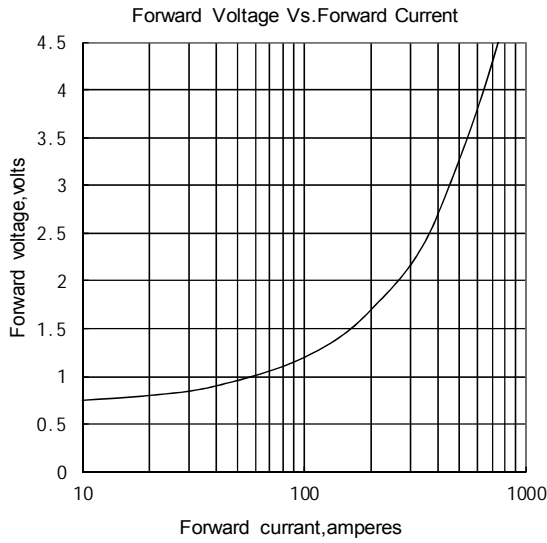


Fig.1

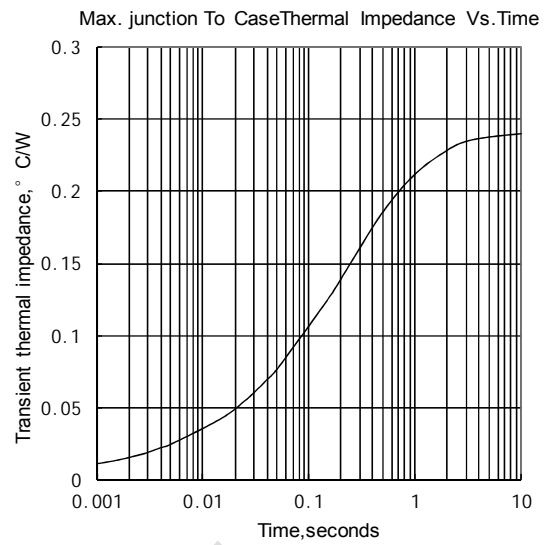


Fig.2

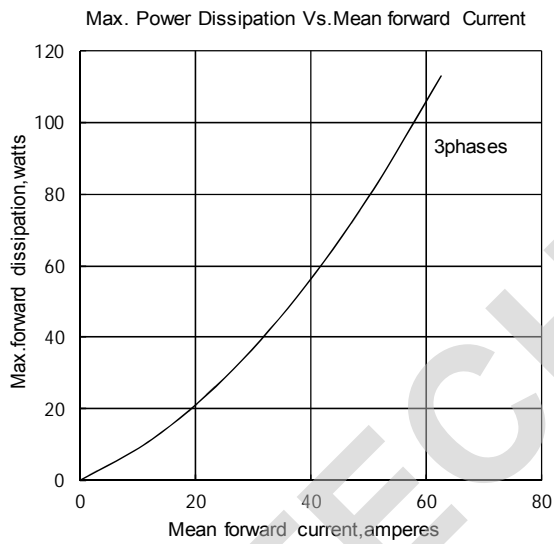


Fig.3

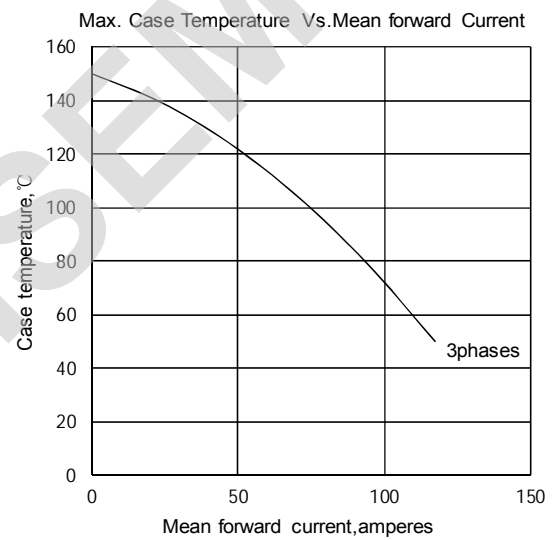


Fig.4

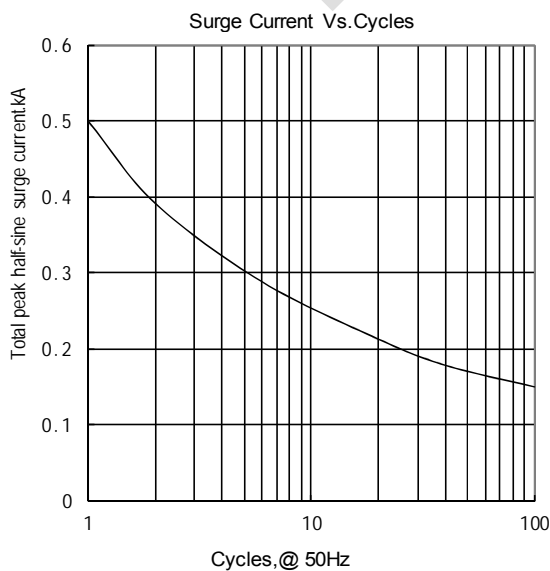


Fig.5

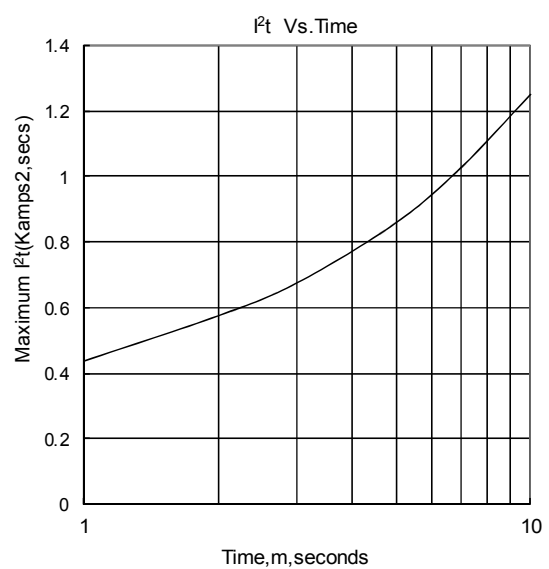


Fig.6

Outline:

