



Thyristor/Diode Modules

VRRM / VDRM 800 to 1800V
IFAV / ITAV 130A

Applications

- Power Converters
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Features

- International standard package
- High Surge Capability
- Glass passivated chip
- Simple Mounting
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- UL recognized applied for file no. E360040

Module Type

| TYPE | VRRM/VDRM | VRSM |
|-------------|-----------|-------|
| MT130CB08T2 | 800V | 900V |
| MT130CB12T2 | 1200V | 1300V |
| MT130CB16T2 | 1600V | 1700V |
| MT130CB18T2 | 1800V | 1900V |

Diode

Maximum Ratings

| Symbol | Item | Conditions | Values | Units |
|------------------|------------------------------------|----------------------|-------------|------------------|
| ID | Output Current(D.C.) | Tc=85 | 130 | A |
| IFSM | Surge forward current | t=10mS Tvj =45 | 4700 | A |
| i ² t | Circuit Fusing Consideration | | 110000 | A ² s |
| Visol | Isolation Breakdown Voltage(R.M.S) | a.c.50HZ;r.m.s.;1min | 3000 | V |
| Tvj | Operating Junction Temperature | | -40 to +125 | |
| Tstg | Storage Temperature | | -40 to +125 | |
| Mt | Mounting Torque | To terminals(M6) | 3±15% | Nm |
| Ms | | To heatsink(M6) | 5±15% | Nm |
| Weight | Module Approximately | | 165 | g |

Thermal Characteristics

| Symbol | Item | Conditions | Values | Units |
|----------|-------------------------|------------------|--------|-------|
| Rth(j-c) | Thermal Impedance, max. | Junction to Case | 0.09 | /W |
| Rth(c-s) | Thermal Impedance, max. | Case to Heatsink | 0.05 | /W |

Electrical Characteristics



Thyristor Maximum Ratings

Thermal Characteristics



Performance Curves



