

Glass Passivated Three  
Phase Rectifier Bridge

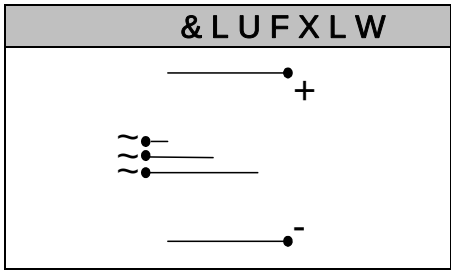
VRRM 800 to 1800V  
ID 130 A

Applications

- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Input rectifiers for variable frequency drives

Features

- Three phase bridge rectifier
- Blocking voltage:800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip
- UL recognized applied for file no. E360040



Module Type

| TYPE       | VRRM  | VRSM  |
|------------|-------|-------|
| MD130S08M5 | 800V  | 900V  |
| MD130S12M5 | 1200V | 1300V |
| MD130S16M5 | 1600V | 1700V |
| MD130S18M5 | 1800V | 1900V |

Maximum Ratings

| Symbol | Conditions | Values | Units |
|--------|------------|--------|-------|
|--------|------------|--------|-------|

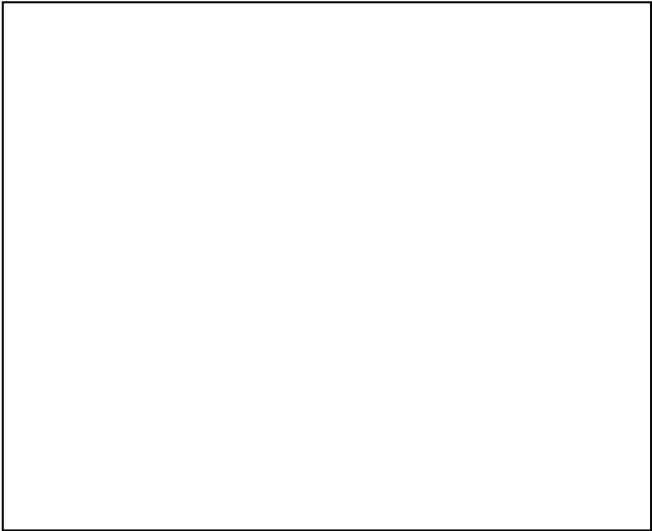
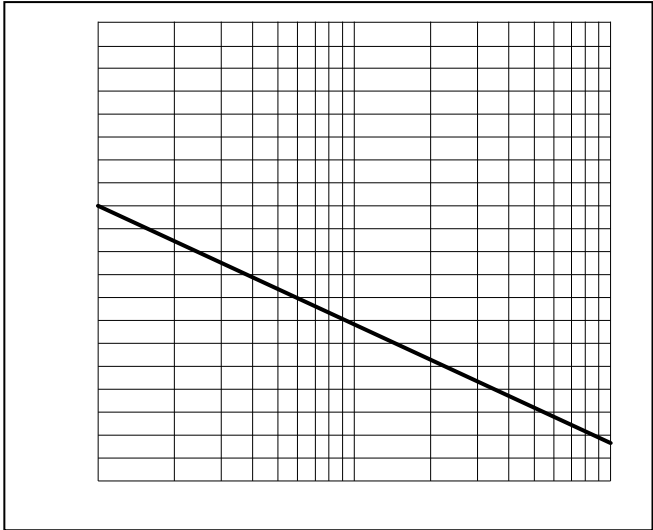
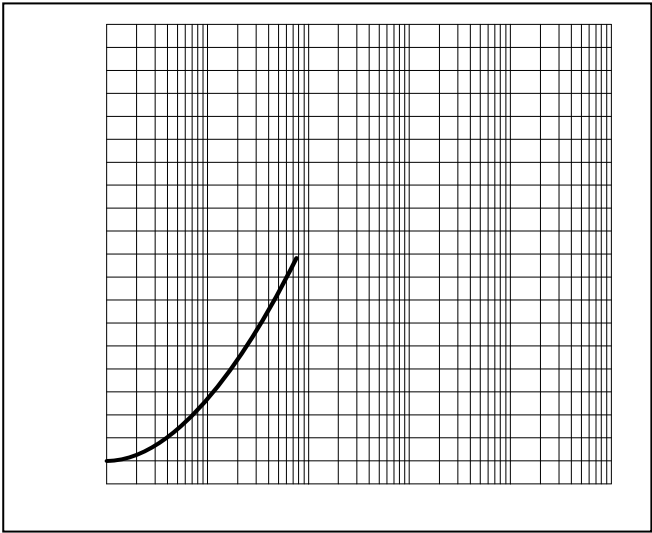
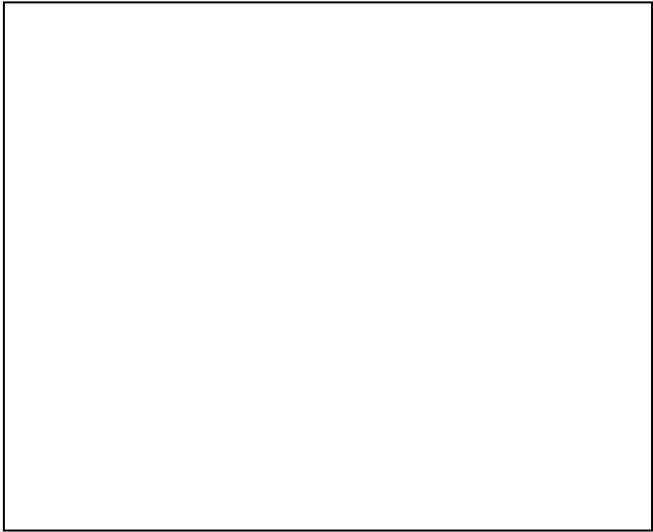
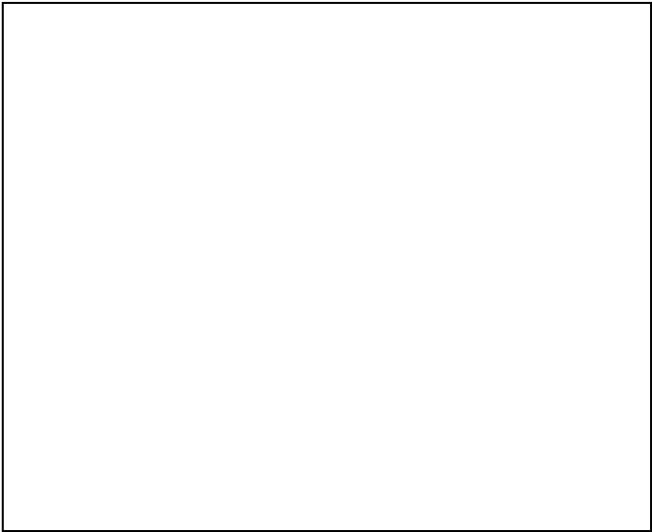
Thermal Characteristics

| Symbol   | Conditions             | Values | Units |
|----------|------------------------|--------|-------|
| Rth(j-c) | Per diode              | 0.9    | /W    |
| Rth(c-s) | Module (Approximately) | 0.03   | /W    |

Electrical Characteristics

| Symbol | Conditions    | Values |      |      | Units |
|--------|---------------|--------|------|------|-------|
|        |               | Min.   | Typ. | Max. |       |
| VFM    | T=25 IF =300A | É      | 1.58 | 1.80 | V     |
| IRD    | Tvj=25 Vlv    |        |      |      |       |

Performance Curves



Package Outline Information

CASE 0M5

*YJ*

Dimensions in mm