General Purpose Rectifiers



600V 10A

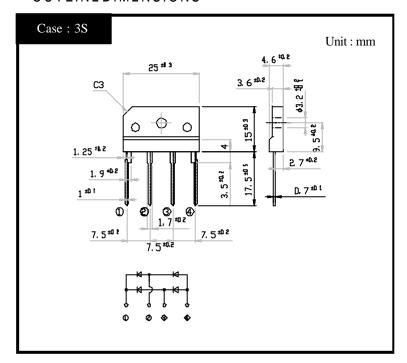
FEATURES

Thin Single In-Line Package High current capacity with Small Package High IFSM Superior Thermal Conductivity

APPLICATION

Switching power supply Home Appliances, Office Equipment Factory Automation, Inverter

OUTLINEDIMENSIONS



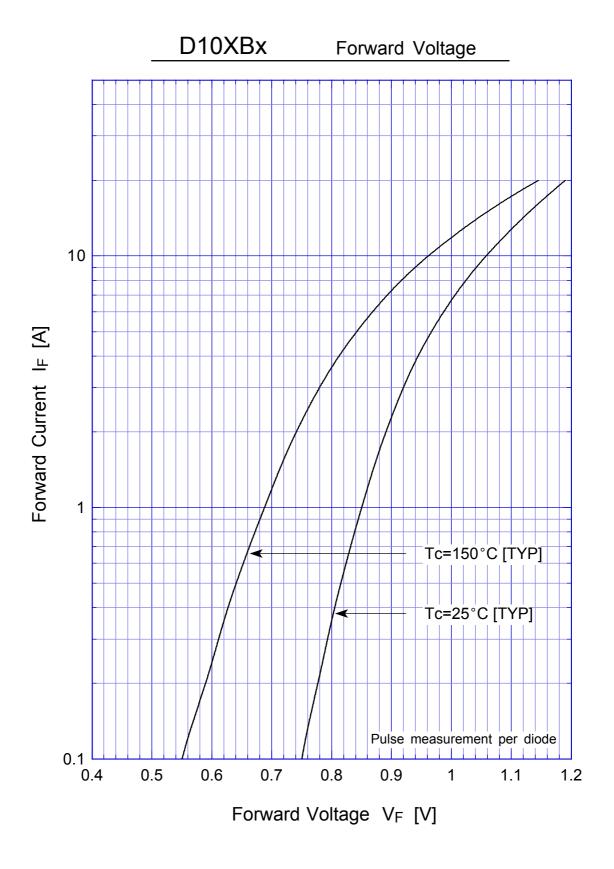
RATINGS

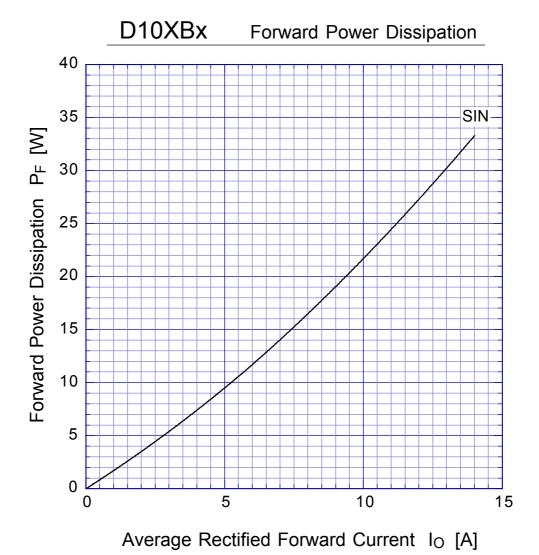
Absolute Maximum Ratings (If not specified Tc=25)

| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|------------------|---|-----------|------|
| Storage Temperature | Tsta | | -40 ~ 150 | |
| Operating Junction Temperature | Ti | | 150 | |
| Maximum Reverse Voltage | Vrm | | 600 | V |
| Average Rectified Forward Current | lo | 50Hz sine wave, R-load With heatsink Tc=100 | 10 | Α |
| | | 50Hz sine wave, R-load Without heatsink Ta=25 | 2.7 | |
| Peak Surge Forward Current | I _{FSM} | 50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 | 120 | Ą |
| Current Squared Time | l²t | 1ms t < 10ms Ti=25 | 60 | A⁴s |
| Dielectric Strength | Vdis | Terminals to case, AC 1 minute | 2.5 | kV |
| Mounting Torque | TOR | (Recommended torque .0.5N·m) | 0.8 | N∙m |

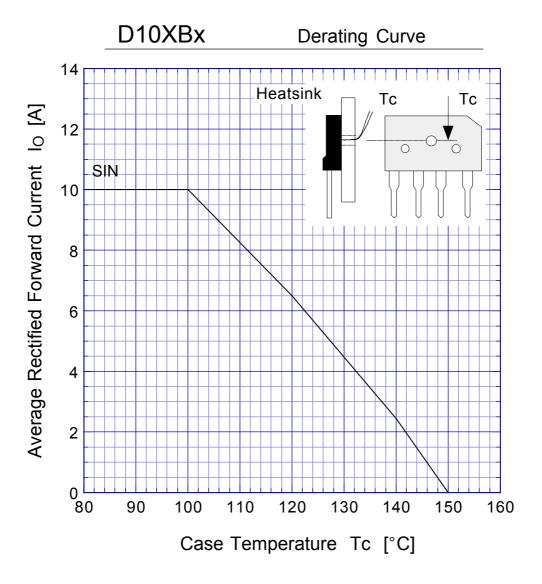
Electrical Characteristics (If not specified Tc=25)

| Lieutiidai Uliaiautelistius (ii | | ed 1C=25 / | | |
|---------------------------------|------------|--|---------|------|
| Item | Symbol | Conditions | Ratings | Unit |
| Forward Voltage | VF | I _F =5A, Pulse measurement, Rating of per diode | Max.1.1 | V |
| Reverse Current | I R | V _R =V _{RM} , Pulse measurement, Rating of per diode | Max.10 | μΑ |
| Thermal Resistance | ic | junction to case With heatsink | Max.2.3 | /W |
| | il | junction to lead Without heatsink | Max.6 | |
| | ia | iunction to ambient Without heatsink | Max.26 | |

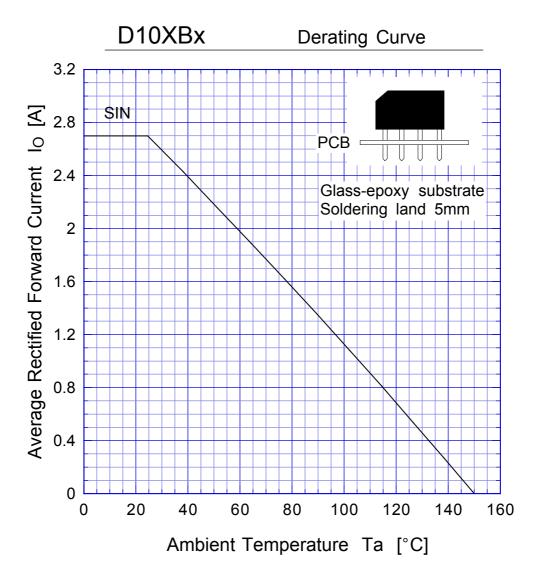




Tj = 150°C Sine wave



Sine wave R-load with heatsink



Sine wave R-load Free in air

