

D30VTA160

1600V 30A

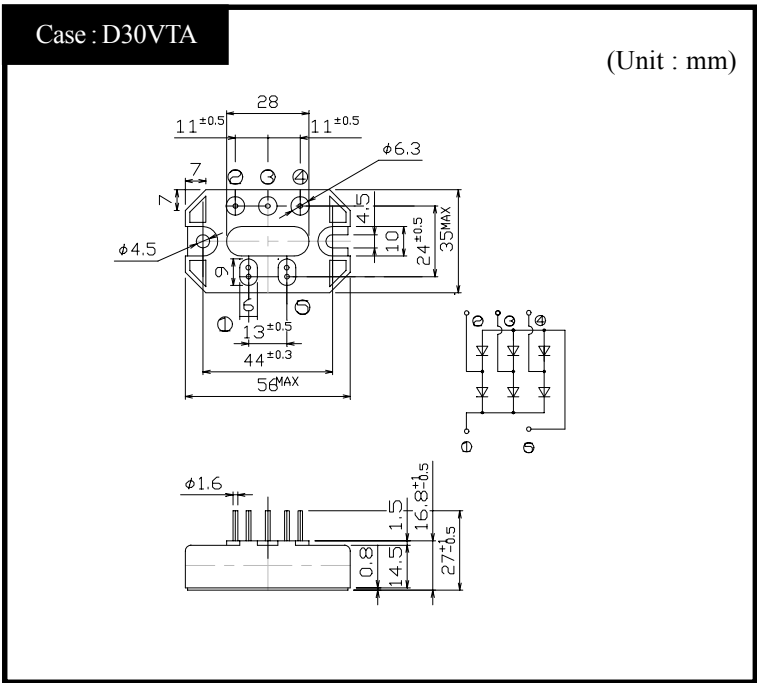
FEATURES

- Dual In-Line Package
- Compact 3 phase bridge
- High voltage,1600V
- Applicable to mount on glass-epoxy substrate

APPLICATION

- Big Power Supply
- Air conditioner
- Factory Automation, Inverter

OUTLINE DIMENSIONS



RATINGS

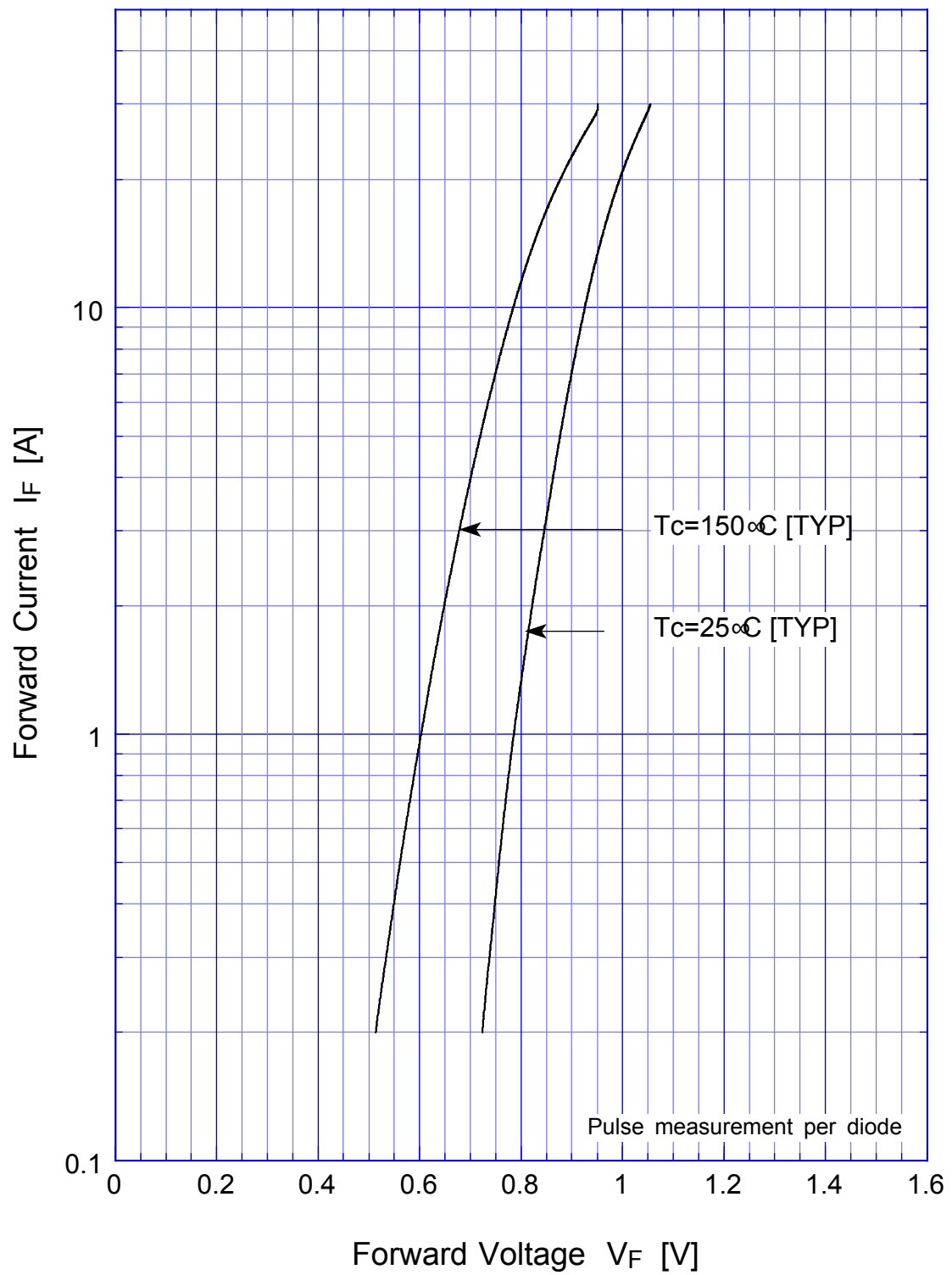
● Absolute Maximum Ratings (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		1600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink Tc=105°C	30	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per diode Tj=25°C	350	A
Current Squared Time	I ² t	1ms ≤ t < 10ms Tc=25°C	300	A ² s
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting Torque	TOR	(Recommended torque)	1	N•m

● Electrical Characteristics (If not specified Tc=25°C)

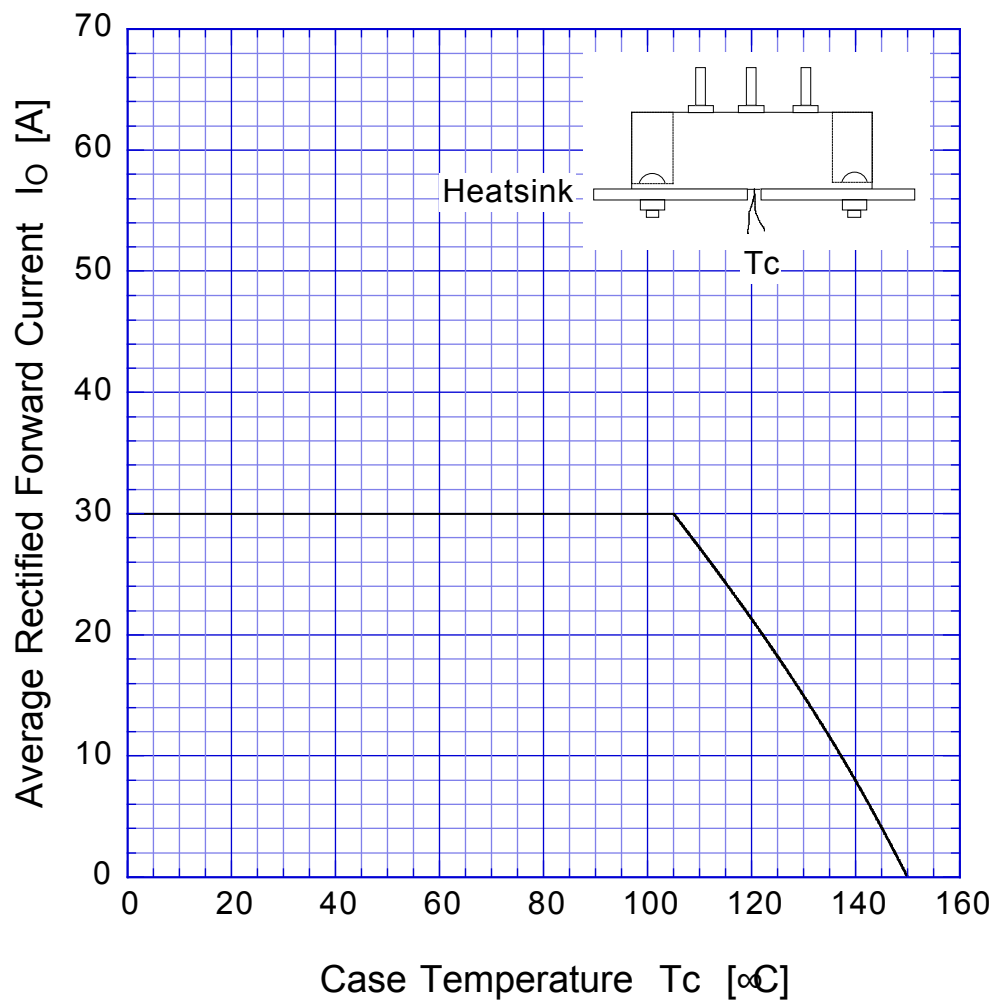
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	IF=10A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.100	μA
Thermal Resistance	θ _{jc}	junction to case	Max.0.7	°C/W

D30VTA160 Forward Voltage



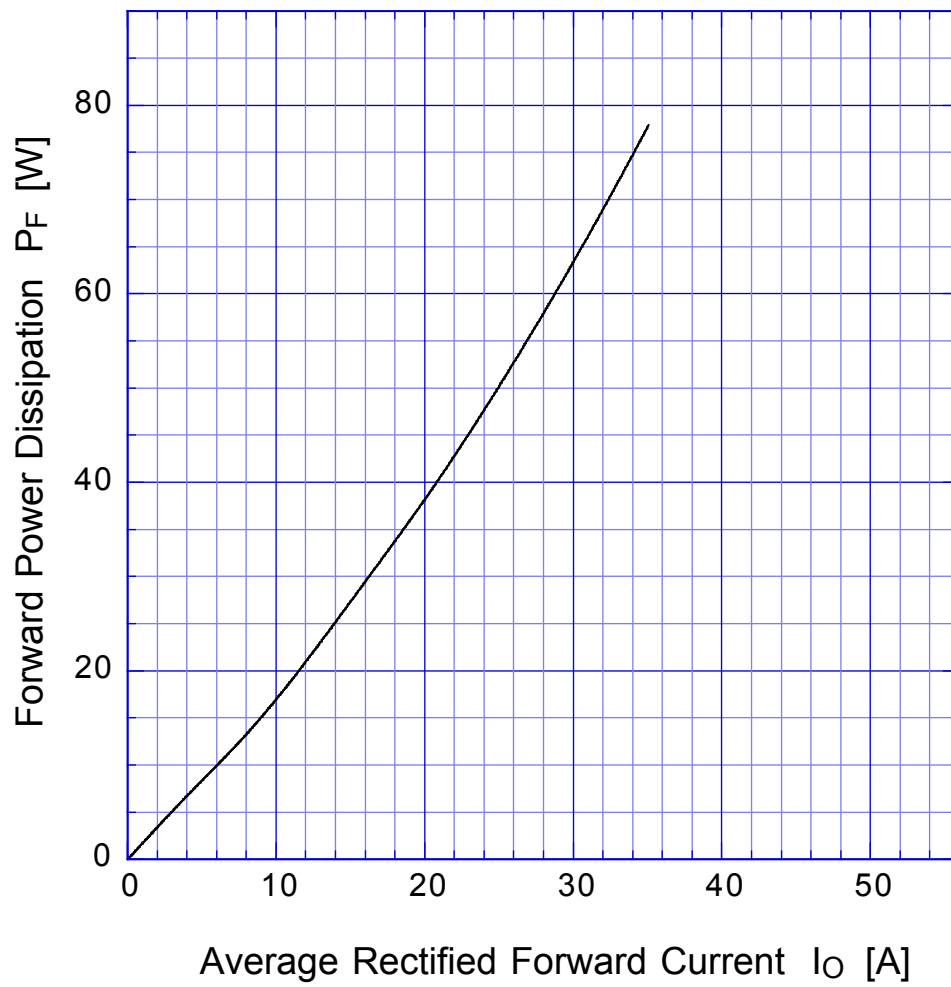
D30VTA160

Derating Curve



Sine wave
R-load
with heatsink

D30VTA160 Forward Power Dissipation



$T_J = 150^\circ\text{C}$

D30VTA160 Peak Surge Forward Capability

