SHINDENGEN

3 Phase Bridge Diode

Diode Module

D30VTA160

1600V 30A

FEATURES

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

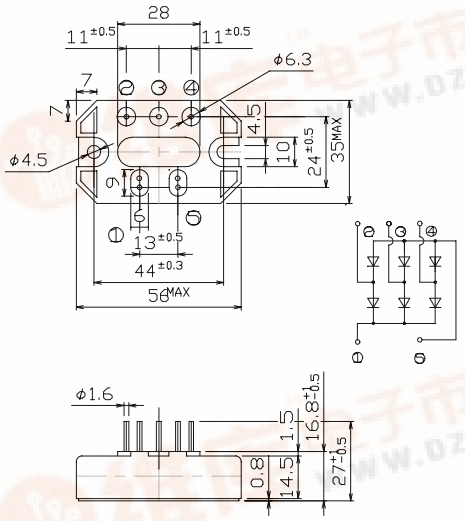
APPLICATION

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

OUTLINE DIMENSIONS

Case : D30VTA

(Unit : mm)



RATINGS

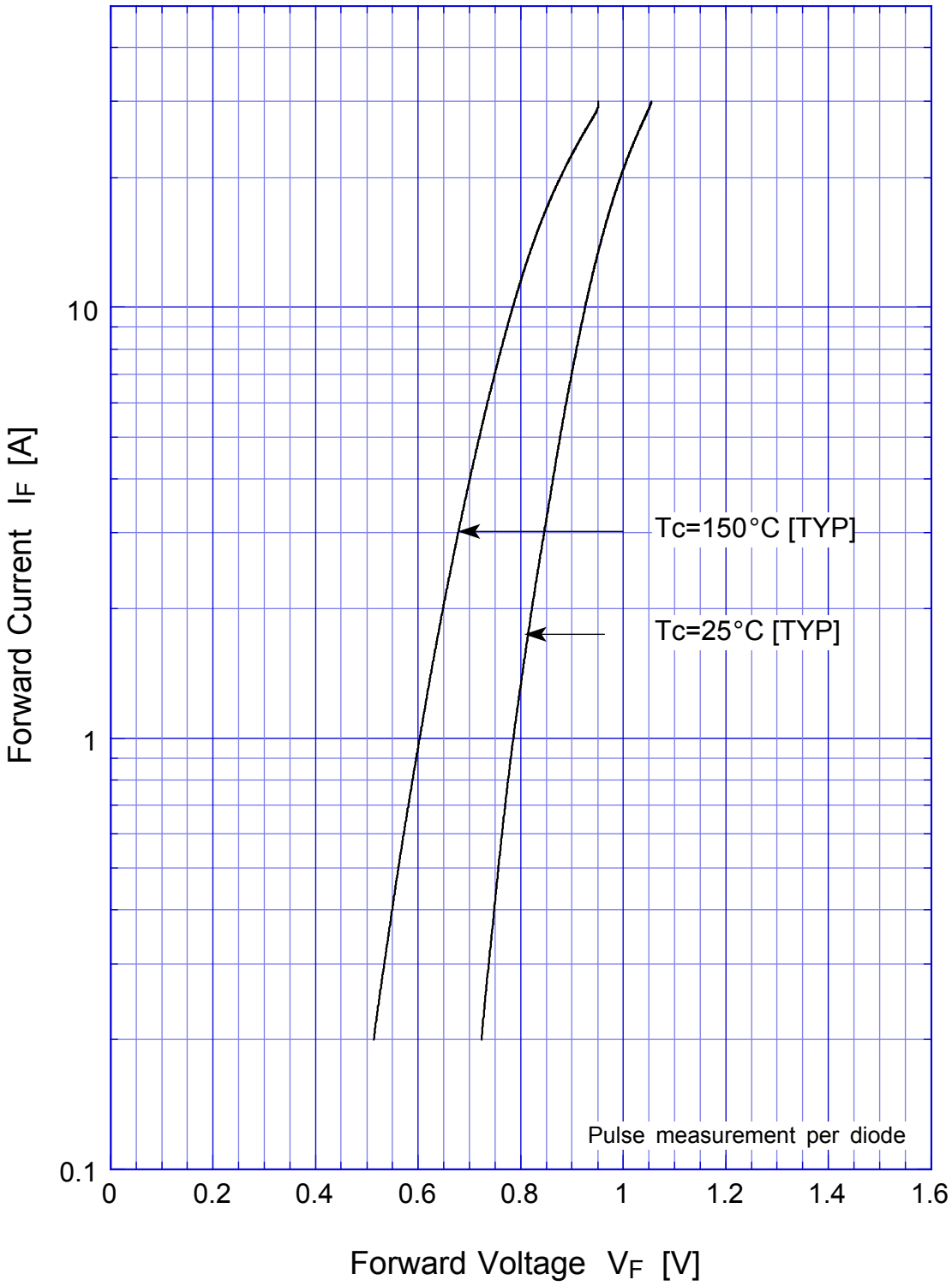
● Absolute Maximum Ratings (If not specified Tc=25℃)

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

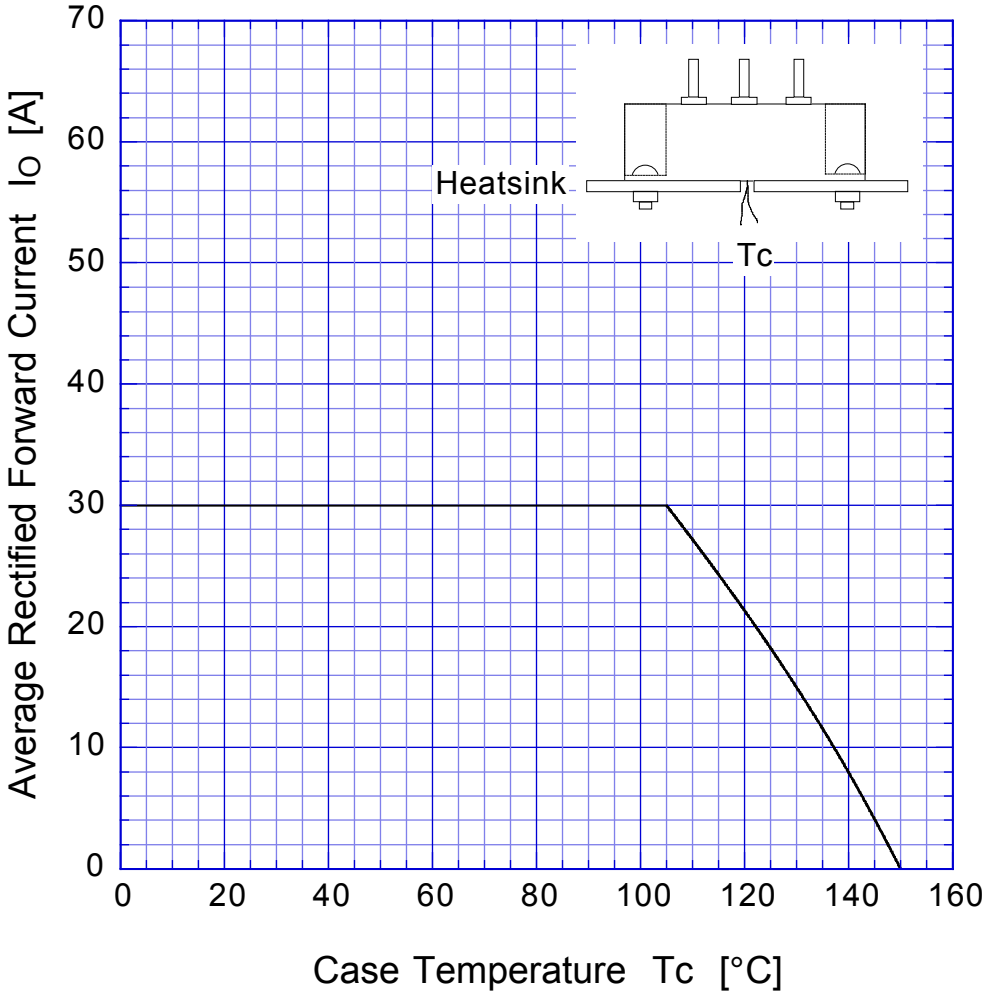
● Electrical Characteristics (If not specified Tc=25℃)

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	θjc	junction to case	Max.0.7	℃/W

D30VTA160 Forward Voltage

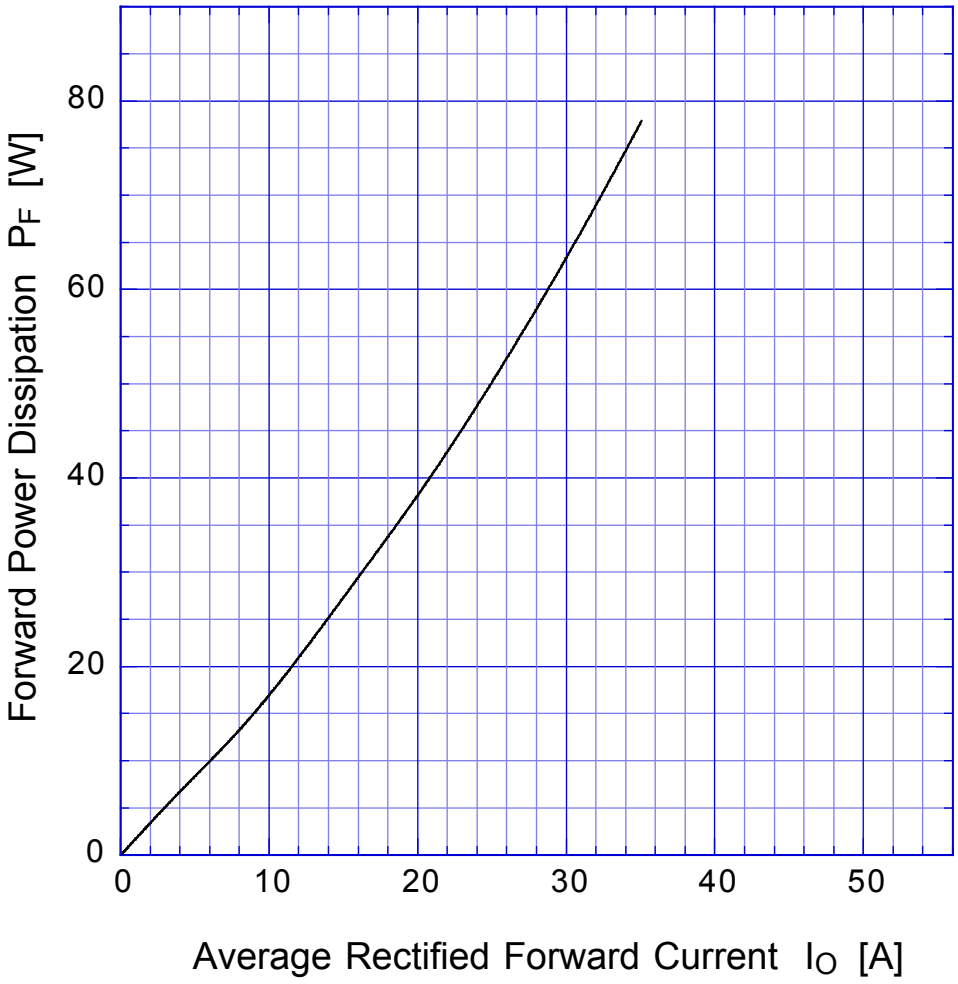


D30VTA160 Derating Curve



Sine wave
R-load
with heatsink

D30VTA160 Forward Power Dissipation



Tj = 150°C

D30VTA160 Peak Surge Forward Capability