

# D30VTA160

## 1600V 30A

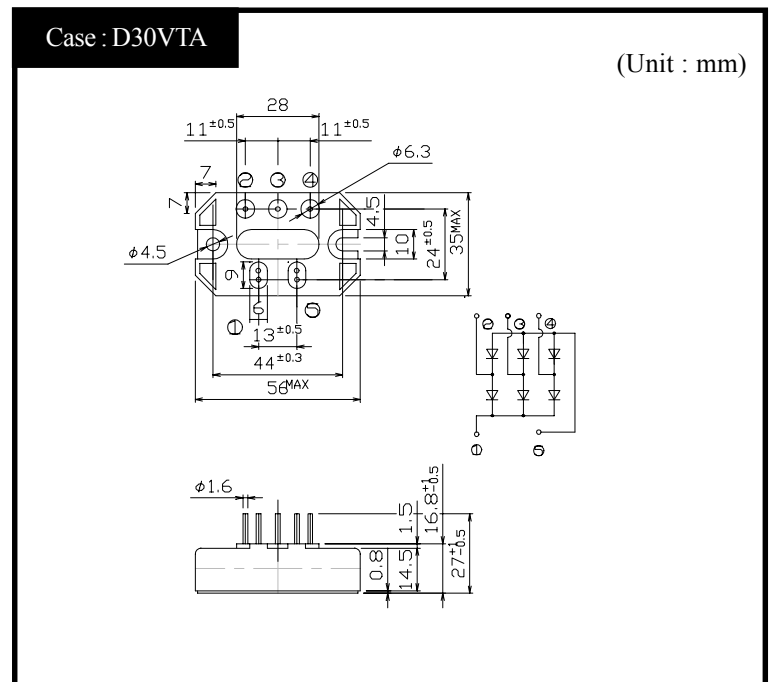
### FEATURES

- 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

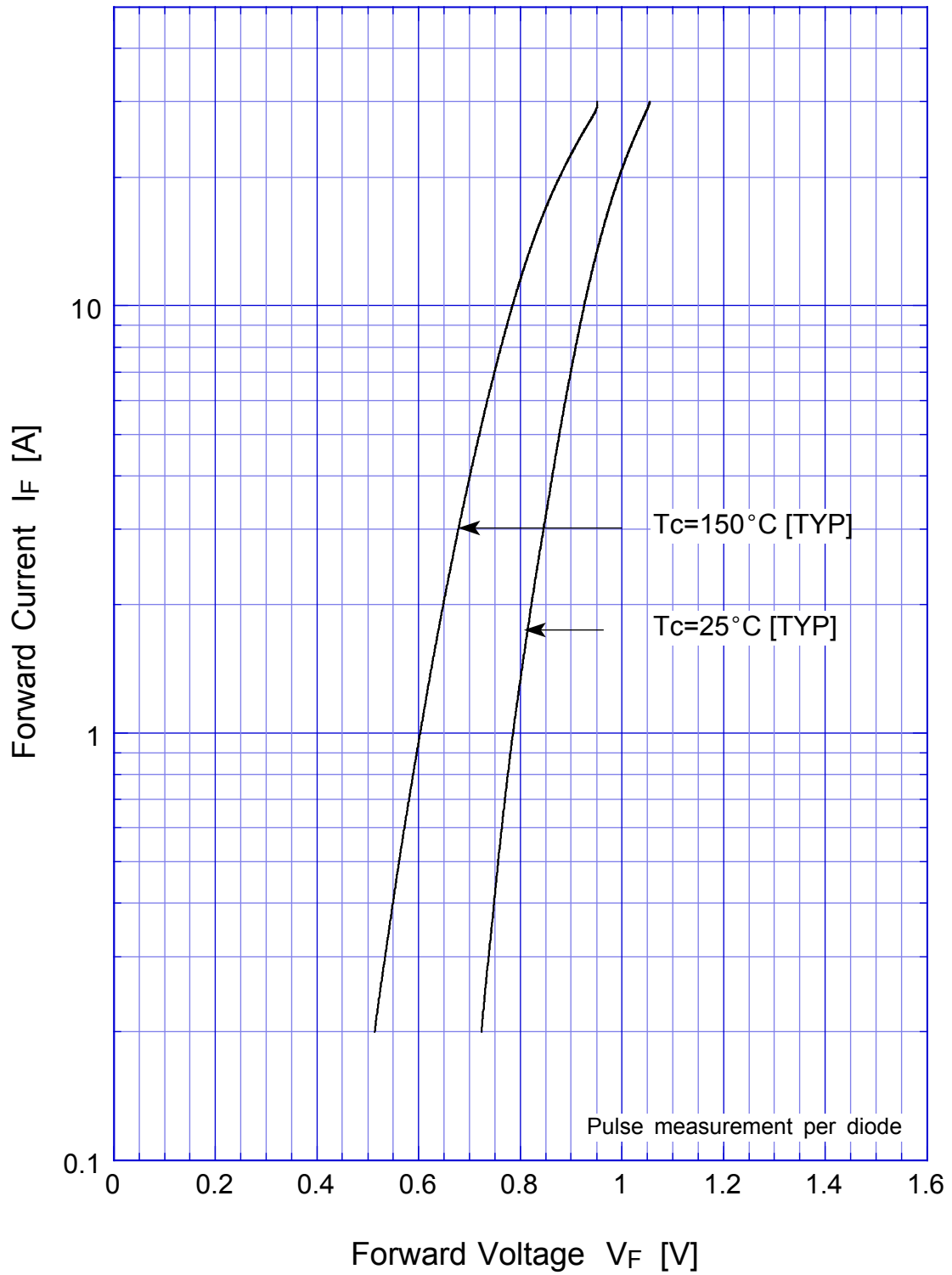
- Absolute Maximum Ratings (If not specified  $T_c=25^\circ\text{C}$ )

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

- Electrical Characteristics (If not specified  $T_c=25^\circ\text{C}$ )

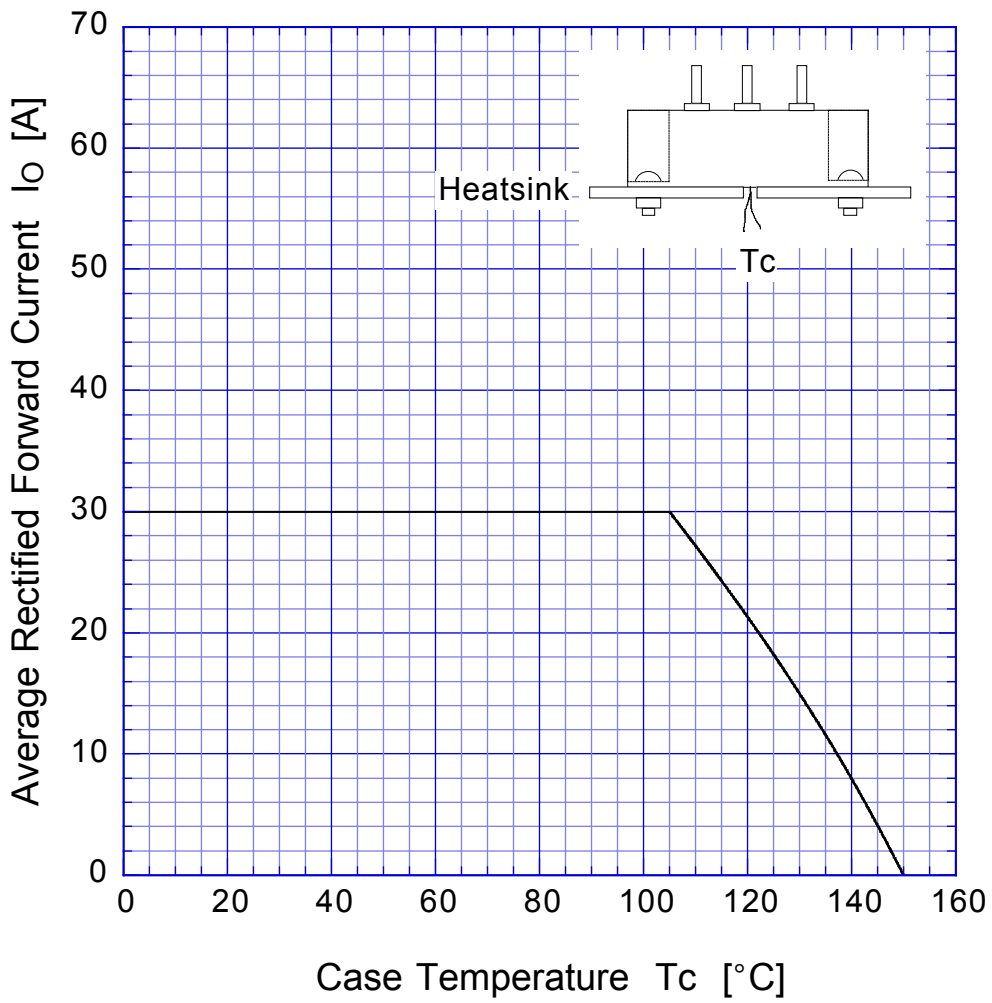
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_F$	$I_F=10\text{A}$ , Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	$I_R$	$V_R=V_{RM}$ , Pulse measurement, Rating of per diode	Max.100	$\mu\text{A}$
Thermal Resistance	$\theta_{jc}$	junction to case	Max.0.7	$^\circ\text{C}/\text{W}$

# D30VTA160 Forward Voltage



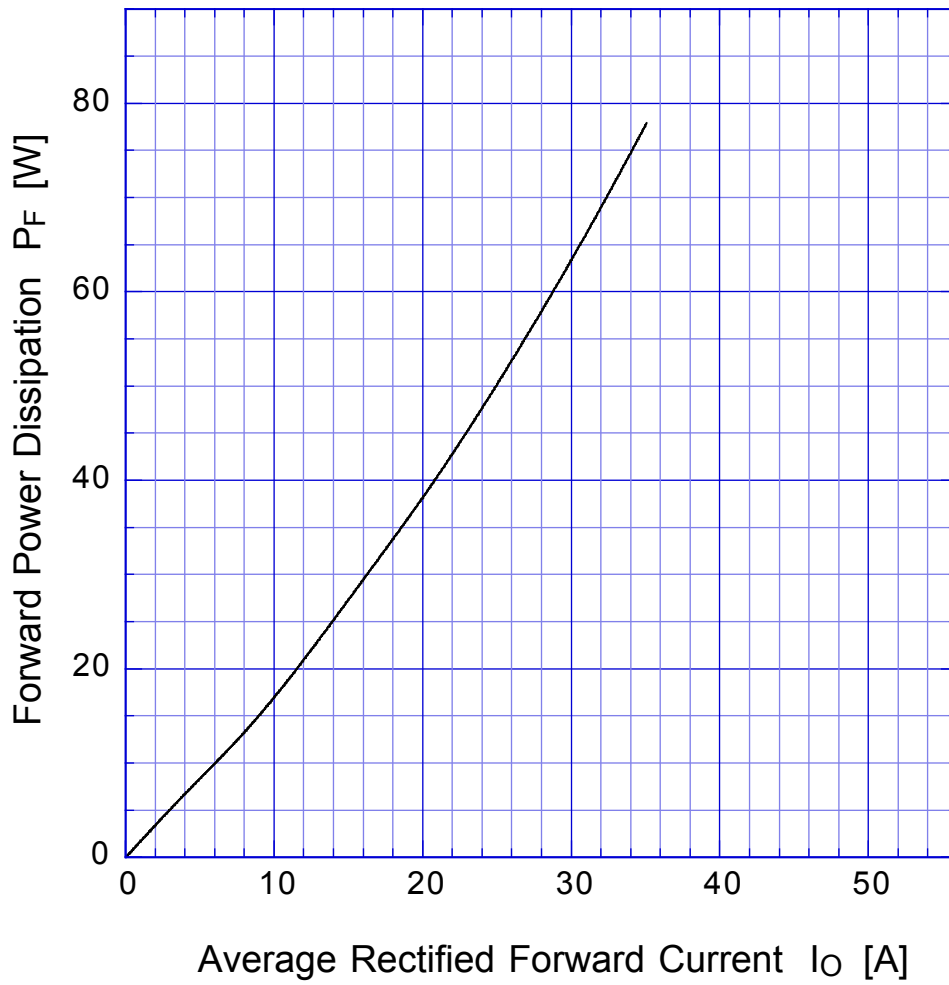
# D30VTA160

# Derating Curve



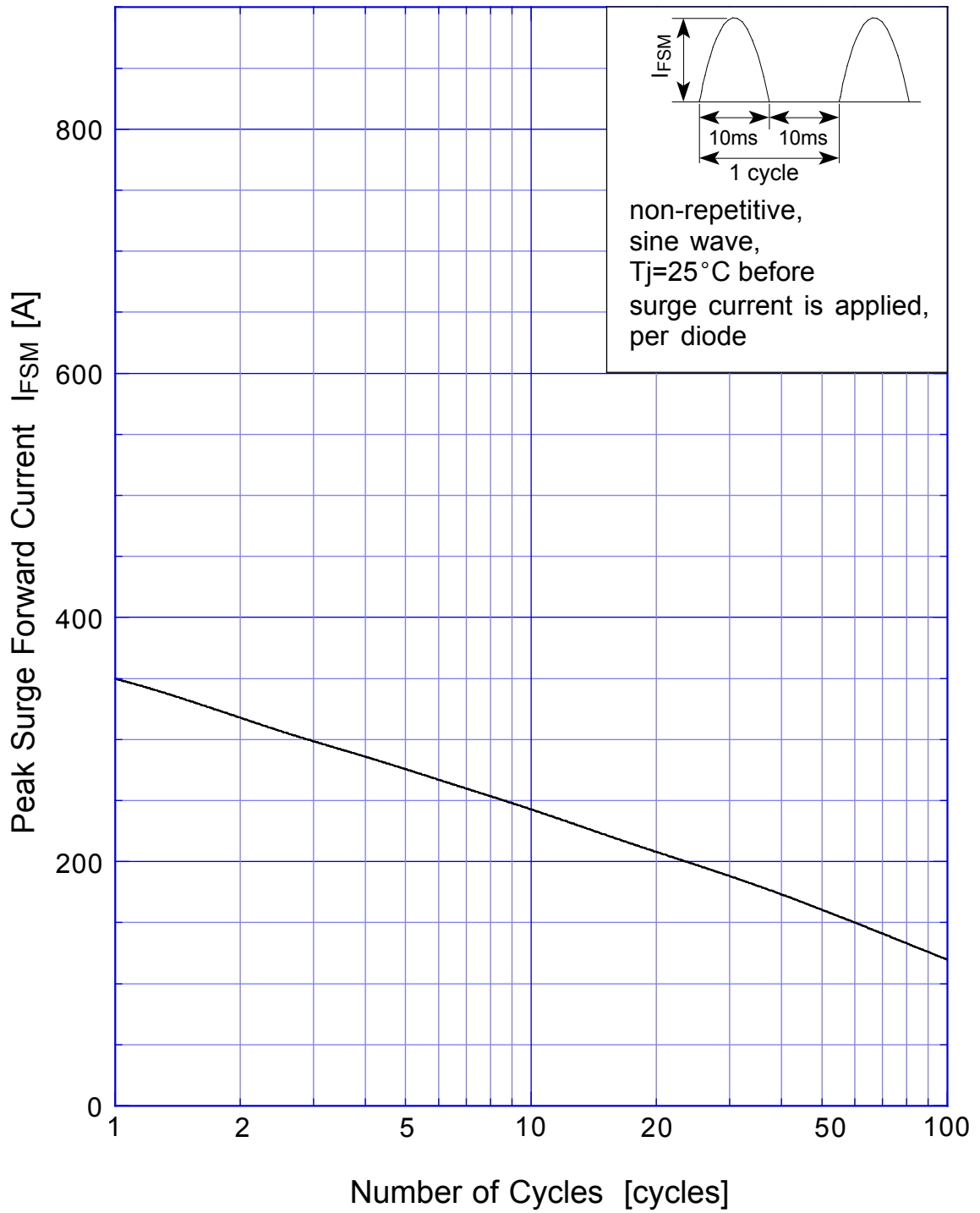
Sine wave  
R-load  
with heatsink

## D30VTA160 Forward Power Dissipation



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

## D30VTA160 Peak Surge Forward Capability



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