

SHINDENGEN

Super Fast Recovery Rectifiers

Single

DE5L60

600V 5A

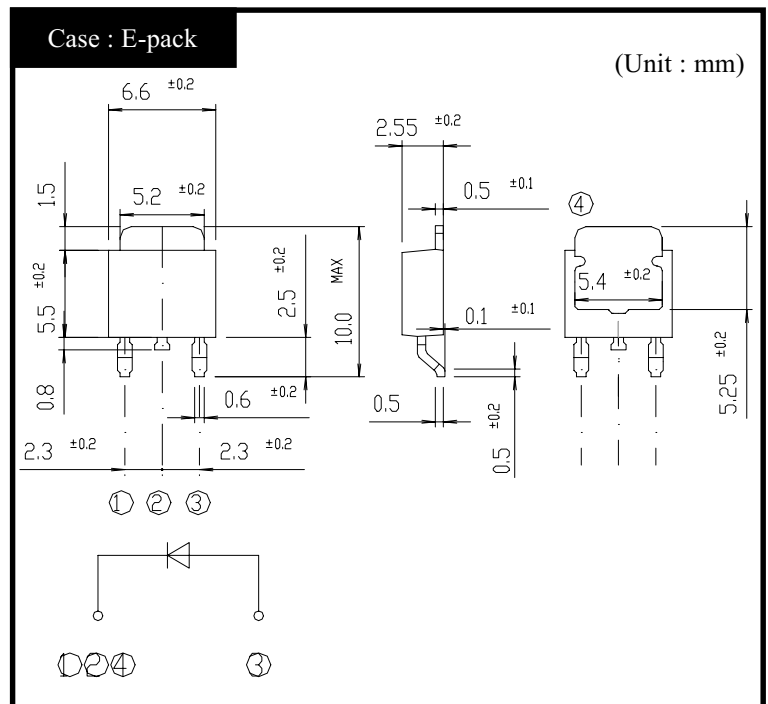
FEATURES

- SMT
- High Voltage
- trr50ns

APPLICATION

- PFC
- Switching power supply
- Free Wheel
- Home Appliances, Office Equipment, Factory Automation

OUTLINE DIMENSIONS



RATINGS

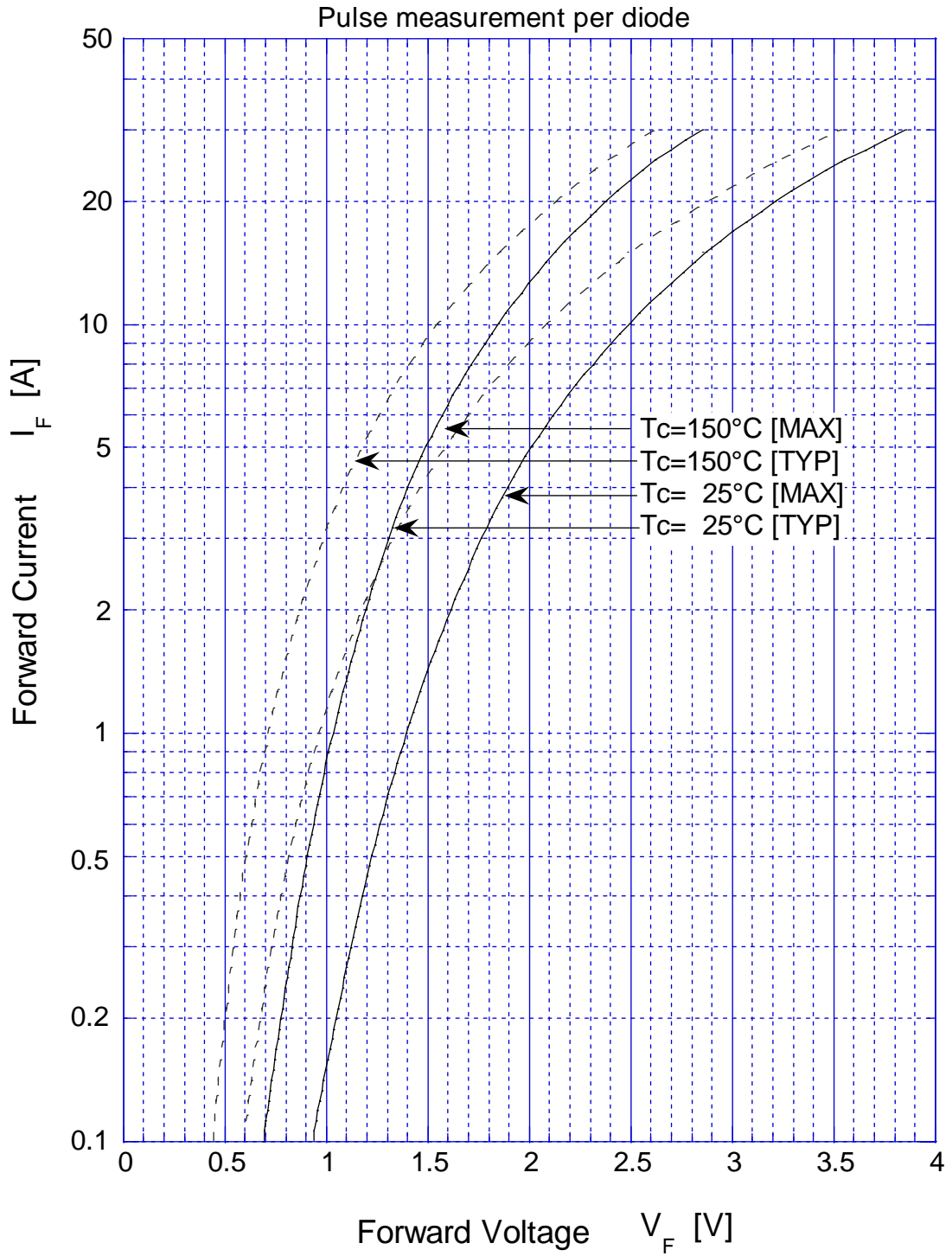
● Absolute Maximum Ratings (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, With heatsink, Tc=57°C	5.0	A
		50Hz sine wave, R-load, Without heatsink, Ta=25°C	1.15	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A

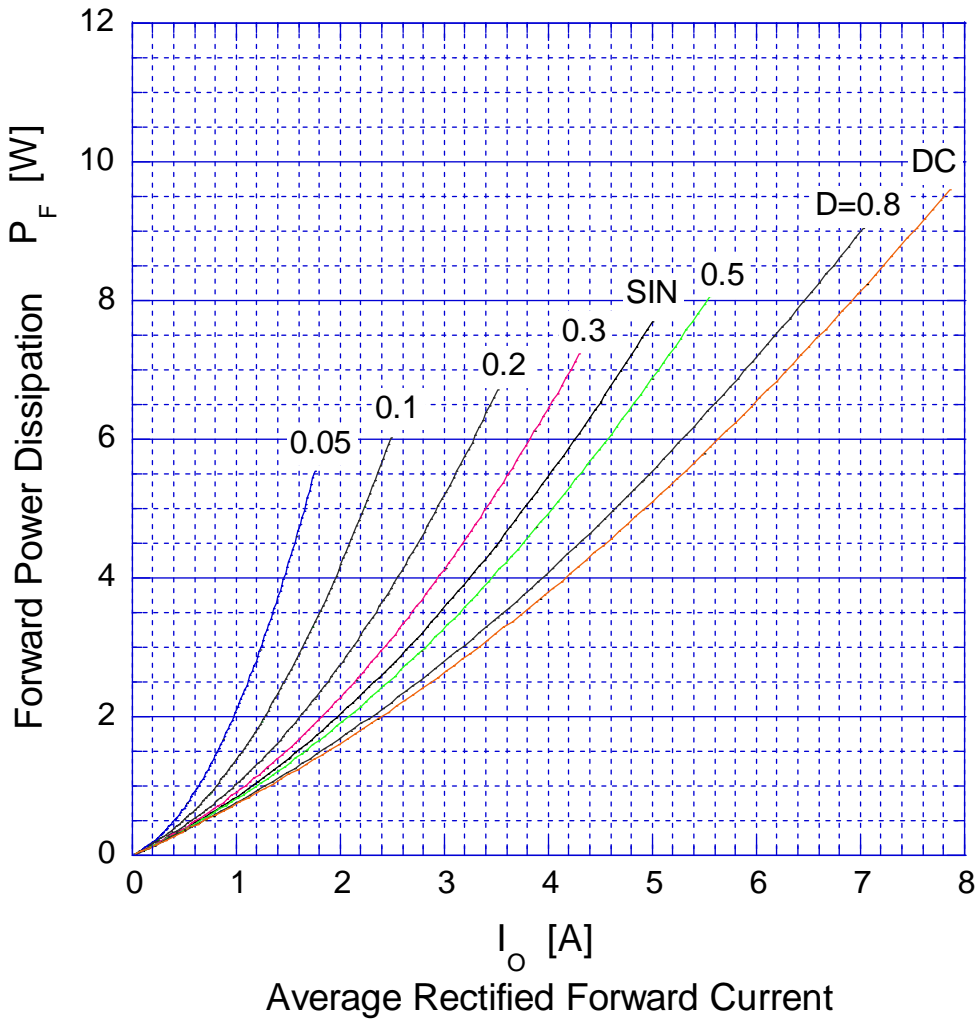
● Electrical Characteristics (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =5A, Pulse measurement	Max 2.0	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max 10	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A	Max 50	ns
Thermal Resistance	θ _{jc}	junction to case	Max 12	°C/W
	θ _{ja}	junction to ambient (self-supported)	Max 125	

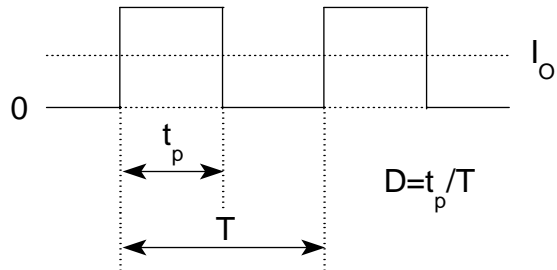
DE5L60 Forward Voltage



DE5L60 Forward Power Dissipation

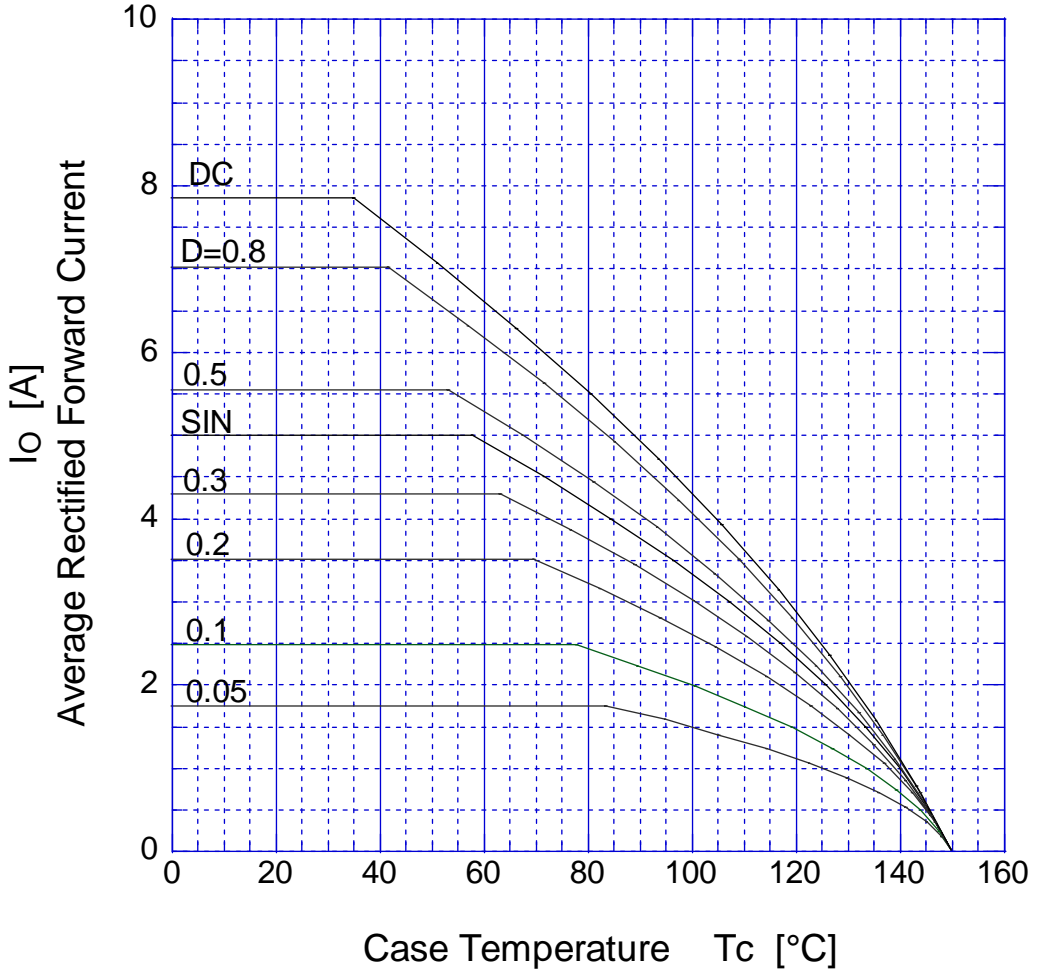


$T_j = 150^\circ\text{C}$

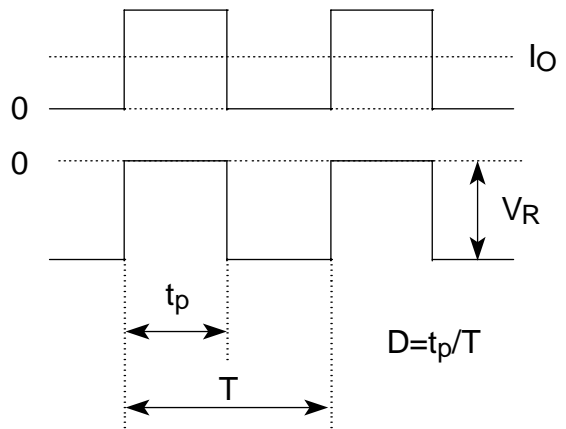


DE5L60

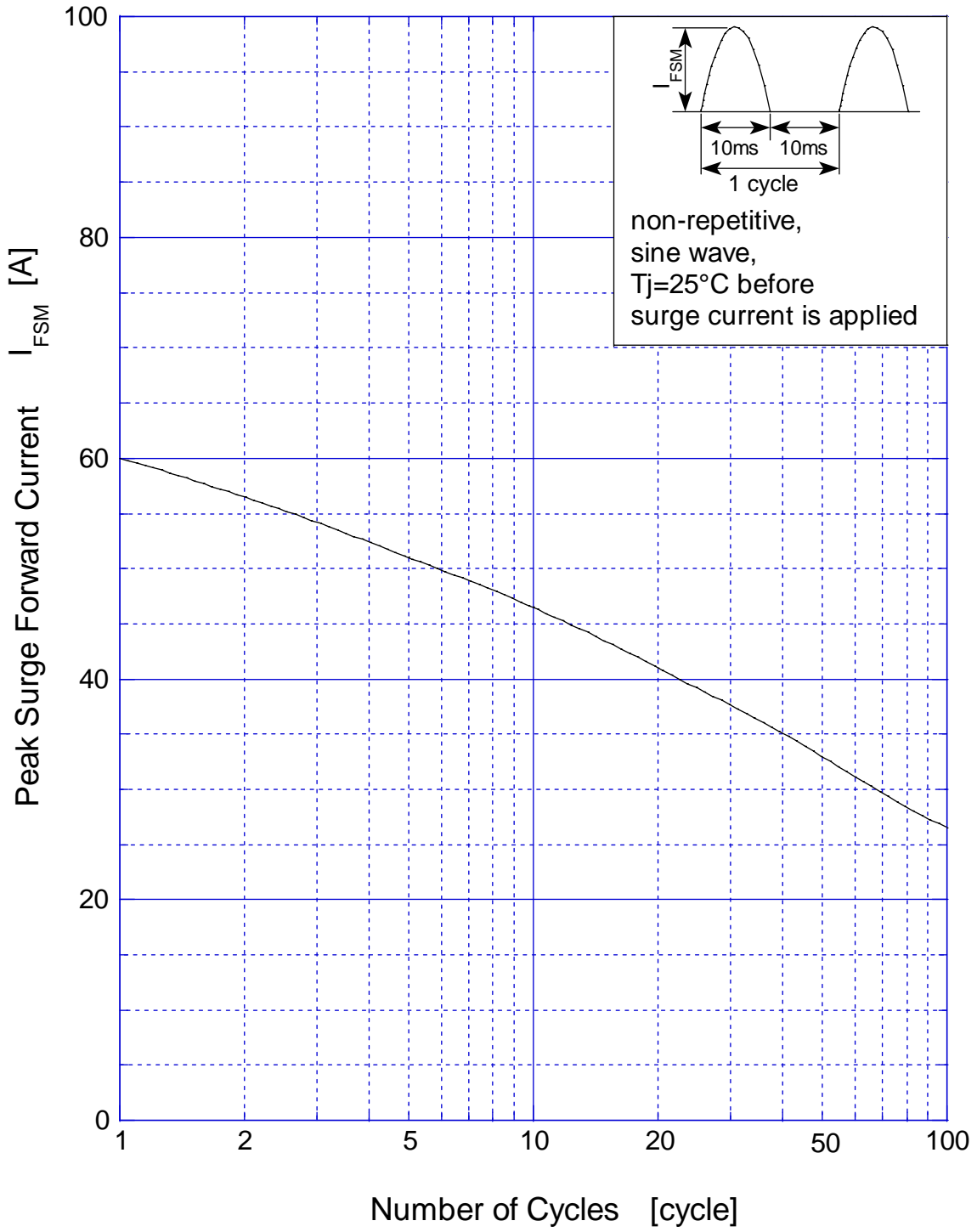
Derating Curve



$$V_R = V_{RM}$$



DE5L60 Peak Surge Forward Capability



DE5L60 Junction Capacitance

