

SHINDENGEN

Super Fast Recovery Rectifiers

Single

DE5L60

600V 5A

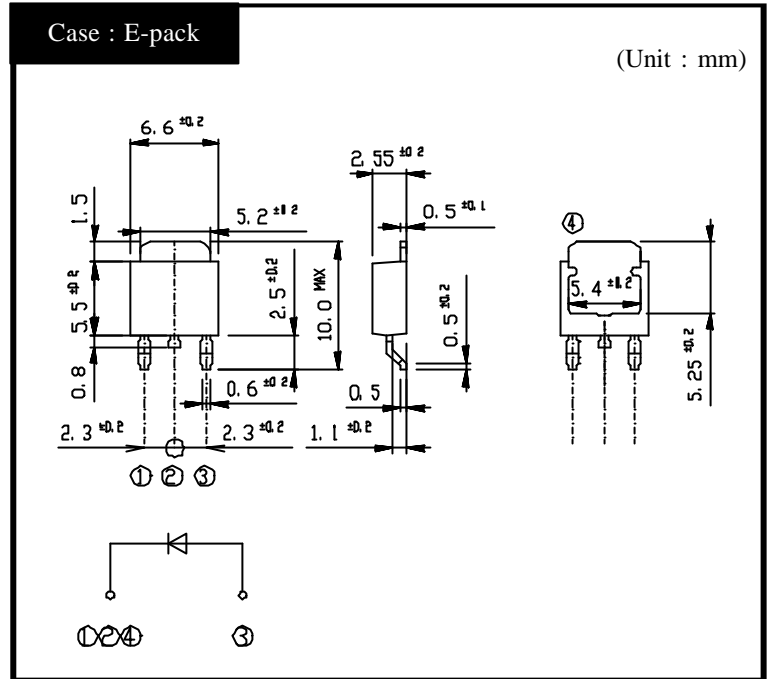
FEATURES

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 $T_c=25$)

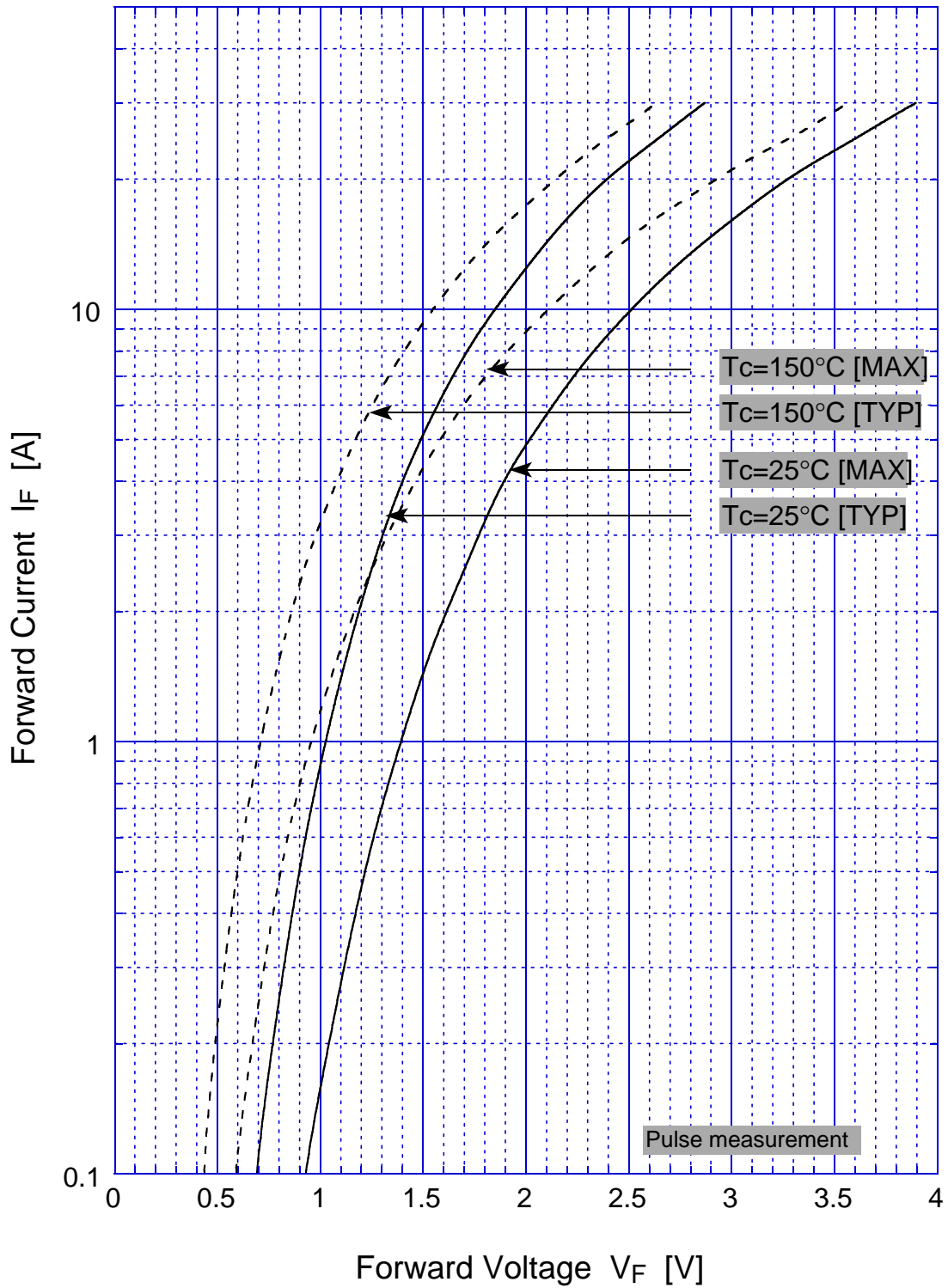
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55 ~ 150	
Operating Junction Temperature	T_j		150	
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, $T_c=57$	5	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25$	60	A

Electrical Characteristics (If not specified $T_c=25$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=5A$, Pulse measurement	Max.2.00	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement	Max.10	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5A$, $I_R=1A$	Max.50	ns
Thermal Resistance	θ_c	junction to case	Max.12	/W

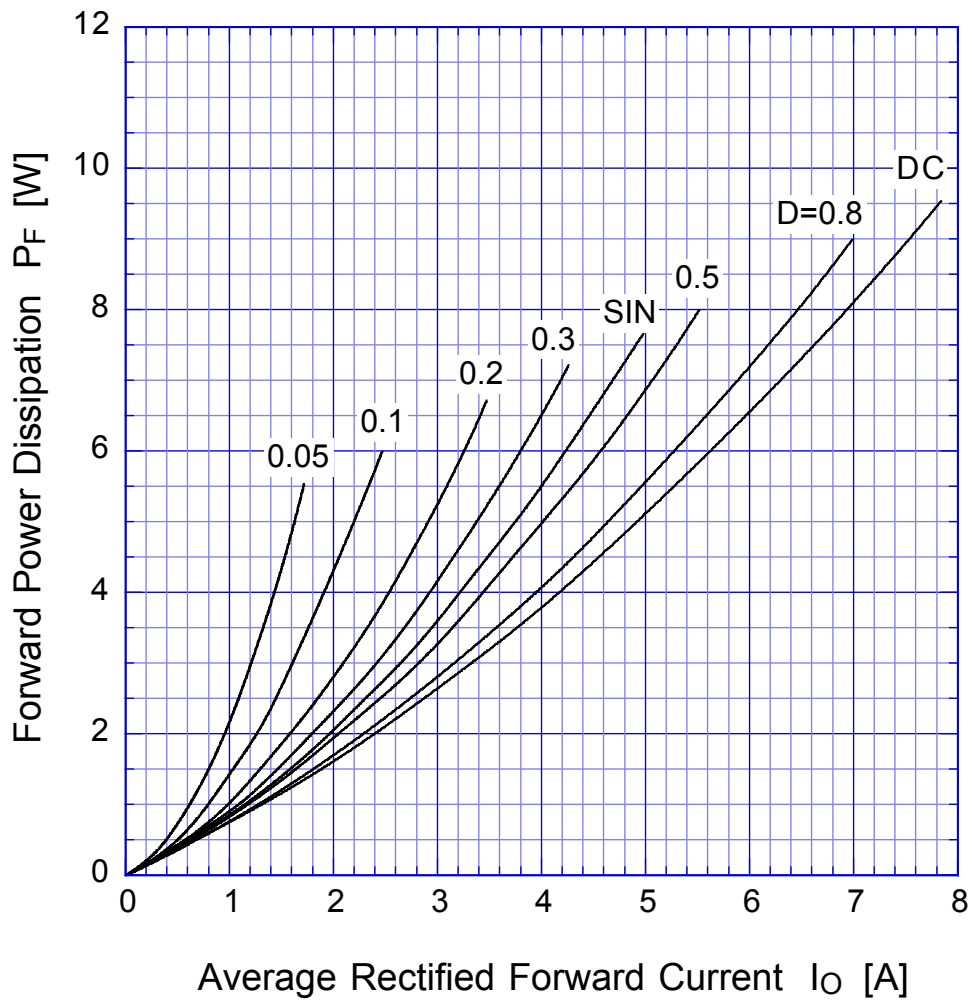
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Forward Voltage

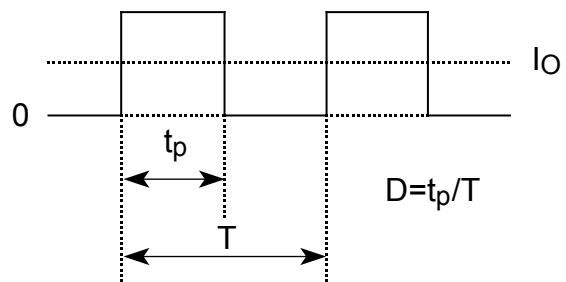


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Forward Power Dissipation

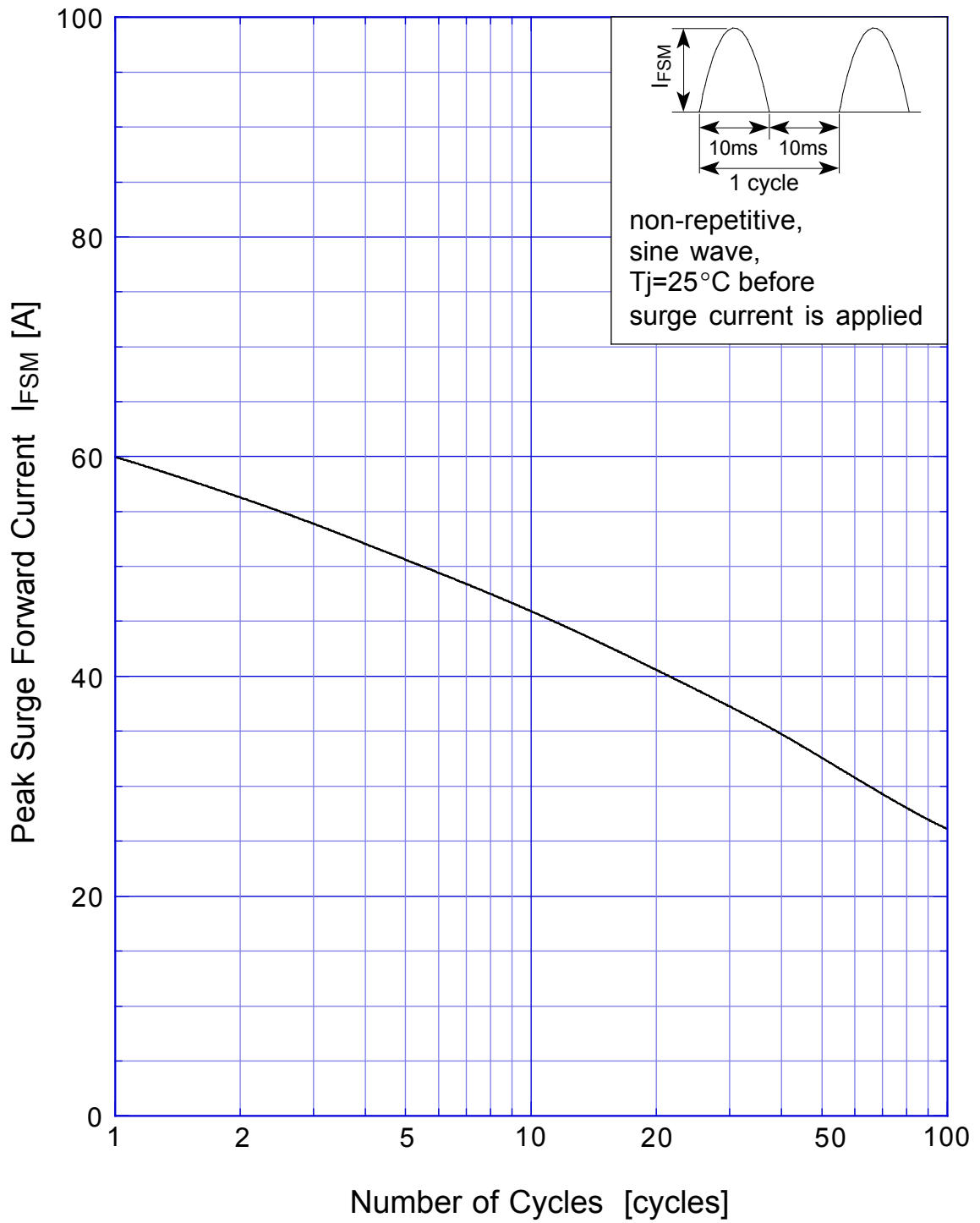


$T_j = 150^\circ\text{C}$



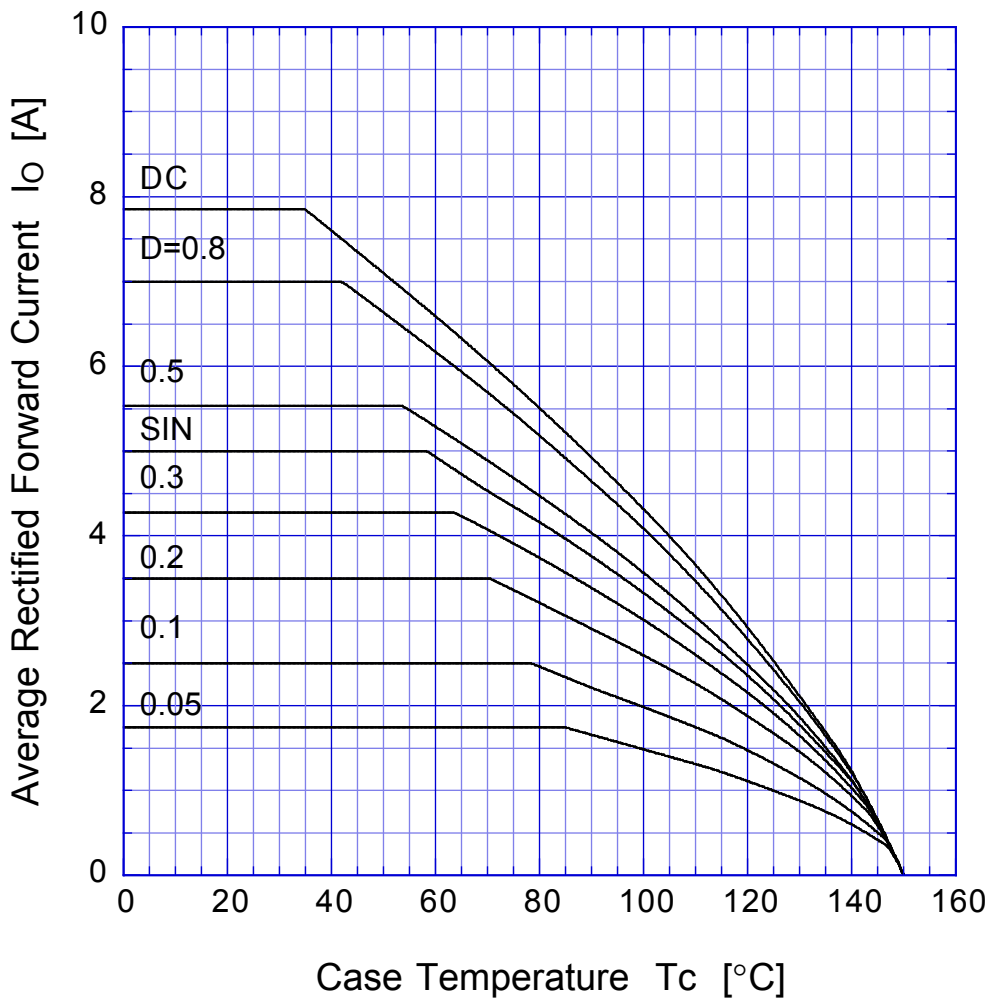
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Peak Surge Forward Capability



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Derating Curve



$V_R = 300V$



DE5L60 Junction Capacitance

