

SHINDENGEN

Super Fast Recovery Rectifiers

Dual

D20LC40

400V 20A

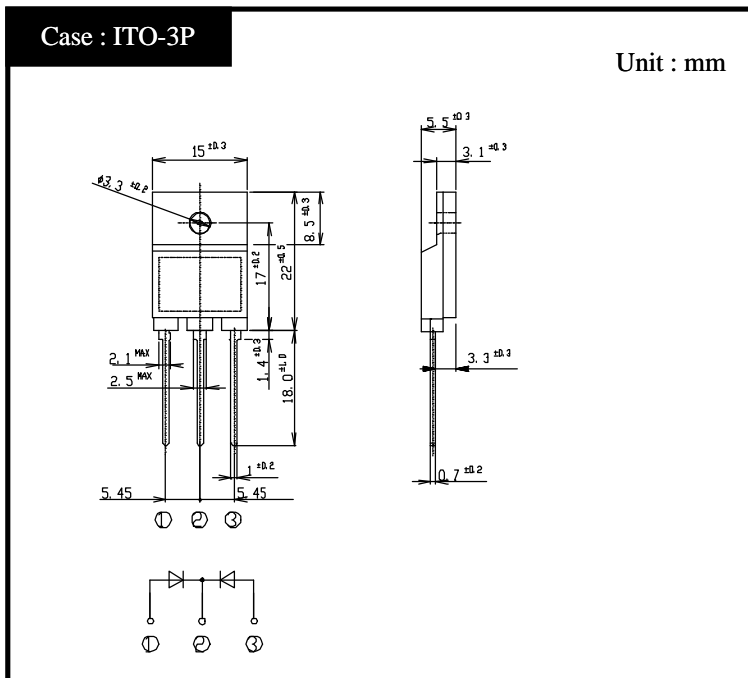
FEATURES

Low noise
trr50ns
Fully Isolated Molding

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified Tc=25)

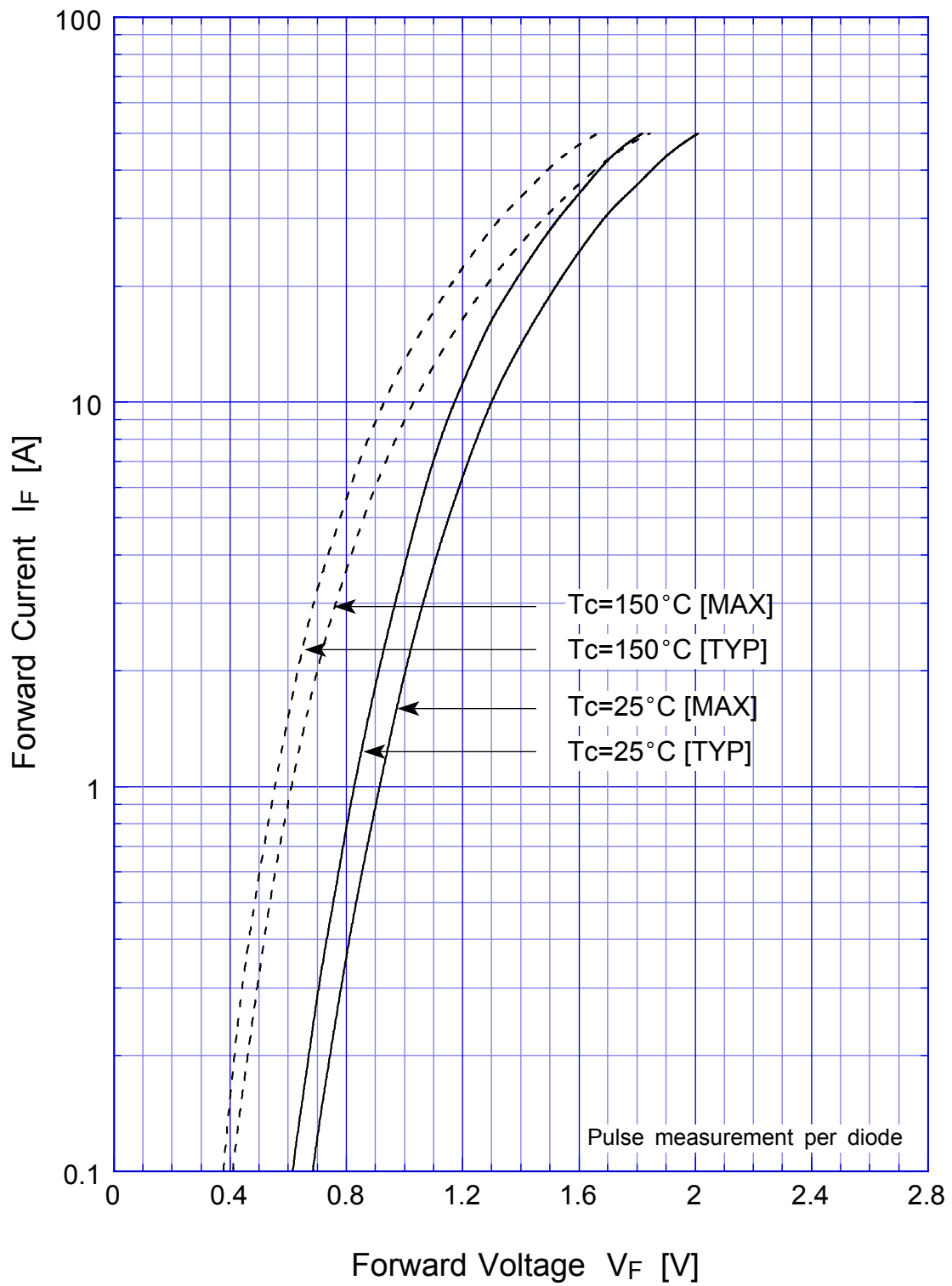
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		400	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _O /2, Tc=102	20	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	120	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	TOR	(Recommended torque 0.5N·m)	0.8	N·m

Electrical Characteristics (If not specified Tc=25)

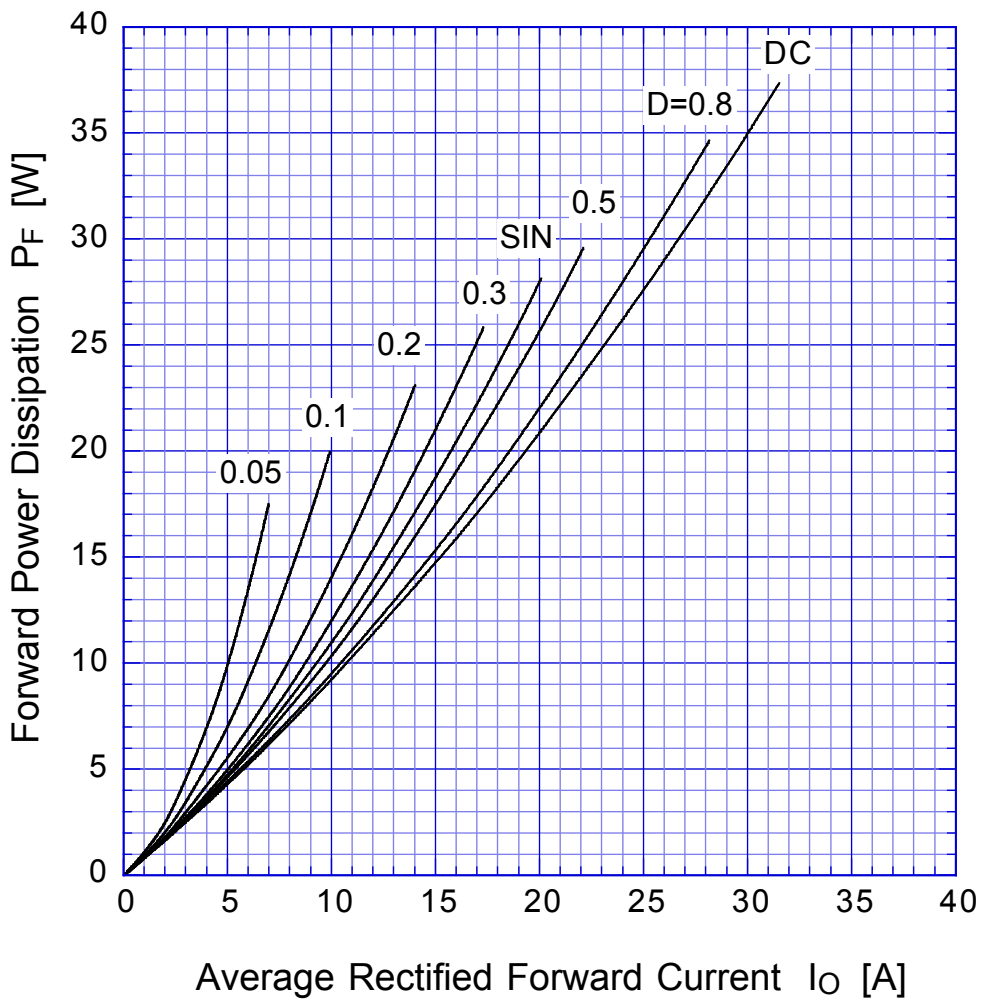
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =10A, Pulse measurement, Rating of per diode	Max.1.3	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A, Rating of per diode	Max.50	ns
Thermal Resistance	jc	junction to case	Max.1.7	/W

D20LC40

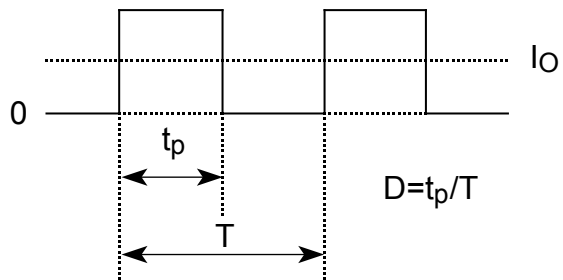
Forward Voltage



D20LC40 Forward Power Dissipation

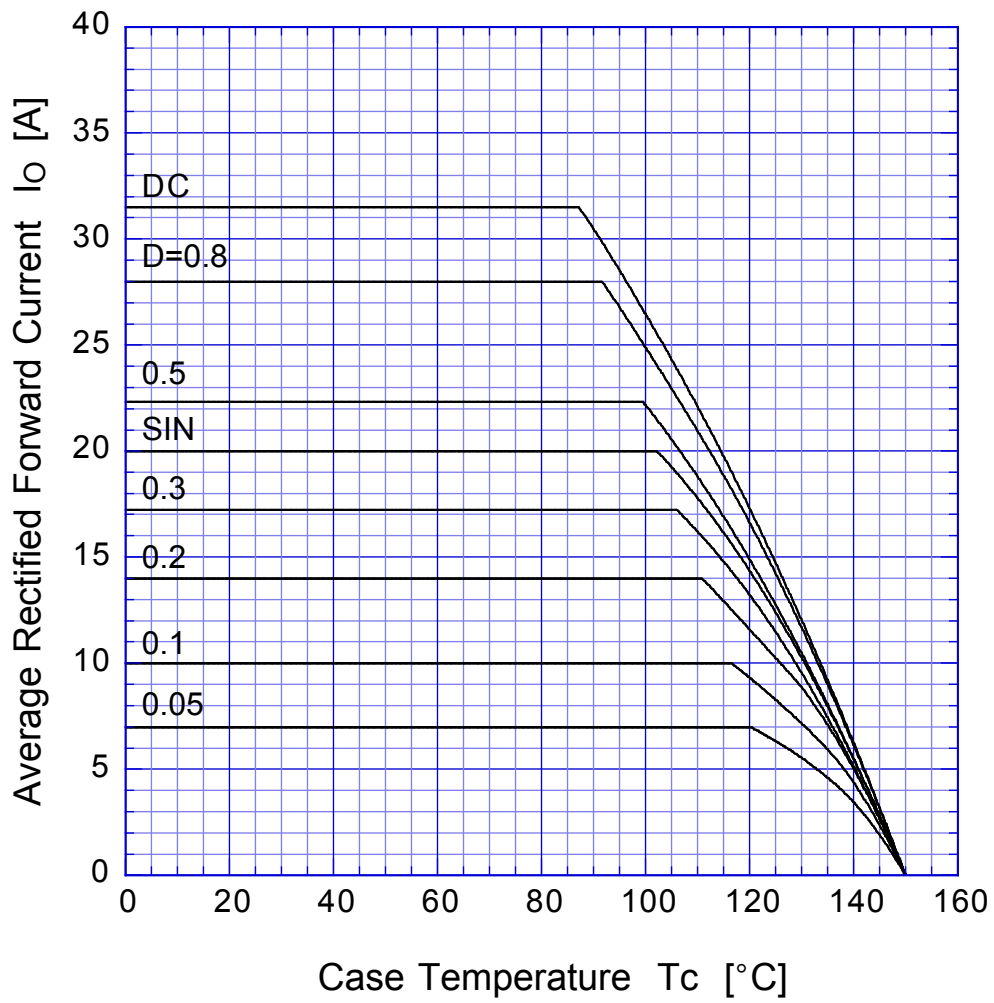


$T_j = T_{jmax}$



D20LC40

Derating Curve

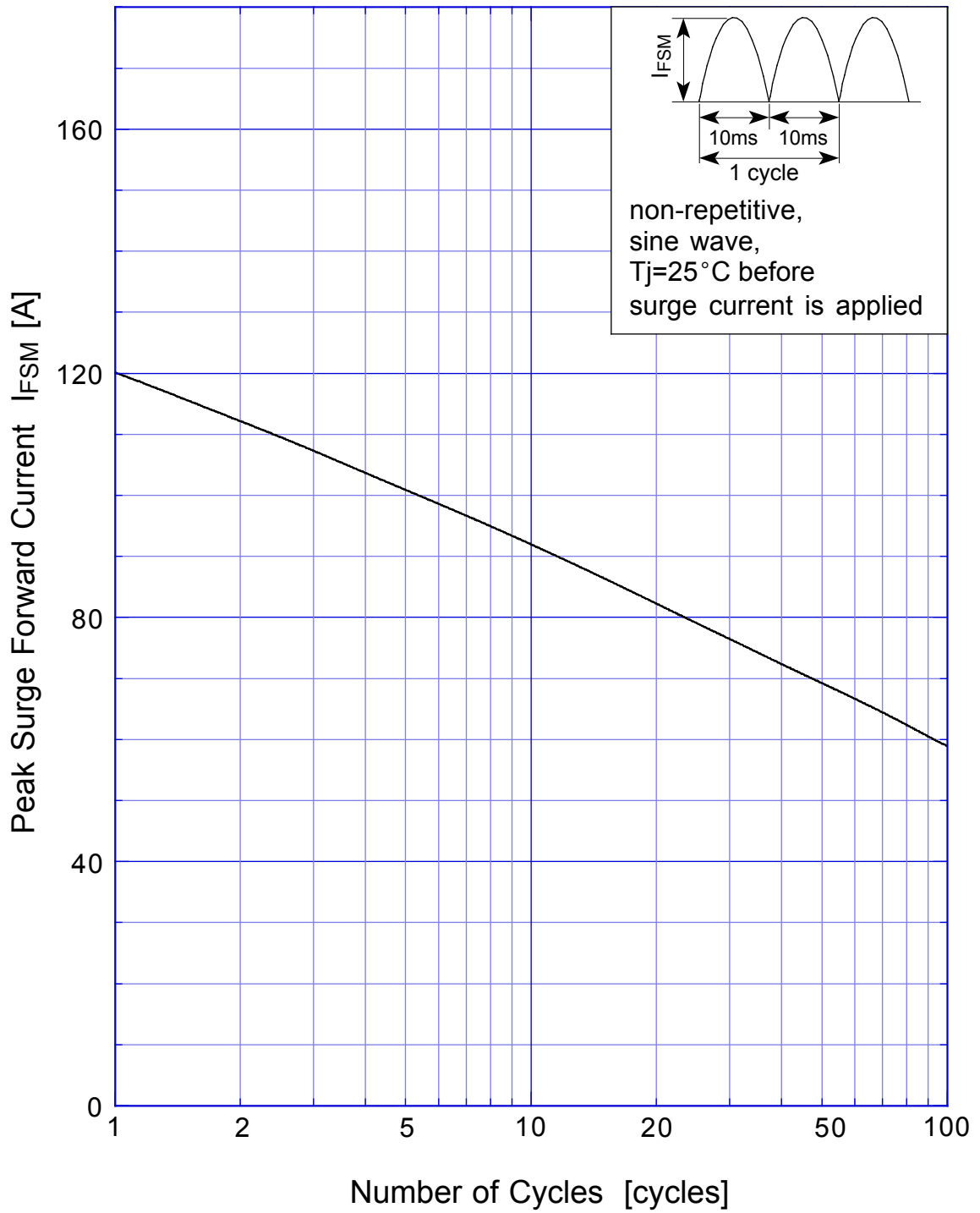


$$V_R = V_{RM}$$



D20LC40

Peak Surge Forward Capability



D20LC40 Junction Capacitance

