

SHINDENGEN

Super Fast Recovery Rectifiers

Dual

S20LC20U

200V 20A

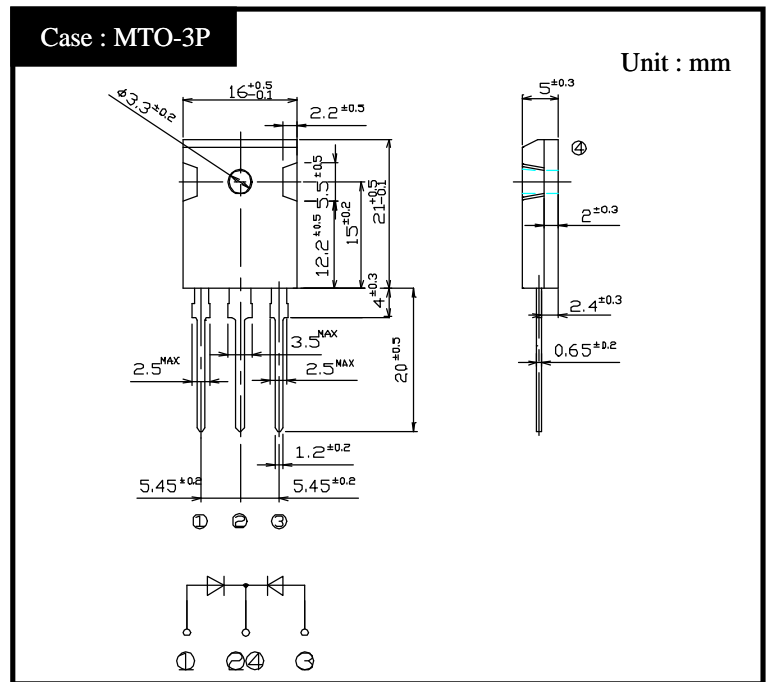
FEATURES

Low noise
trr35ns
Small jc
Dielectric strength 2kV guaranteed

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

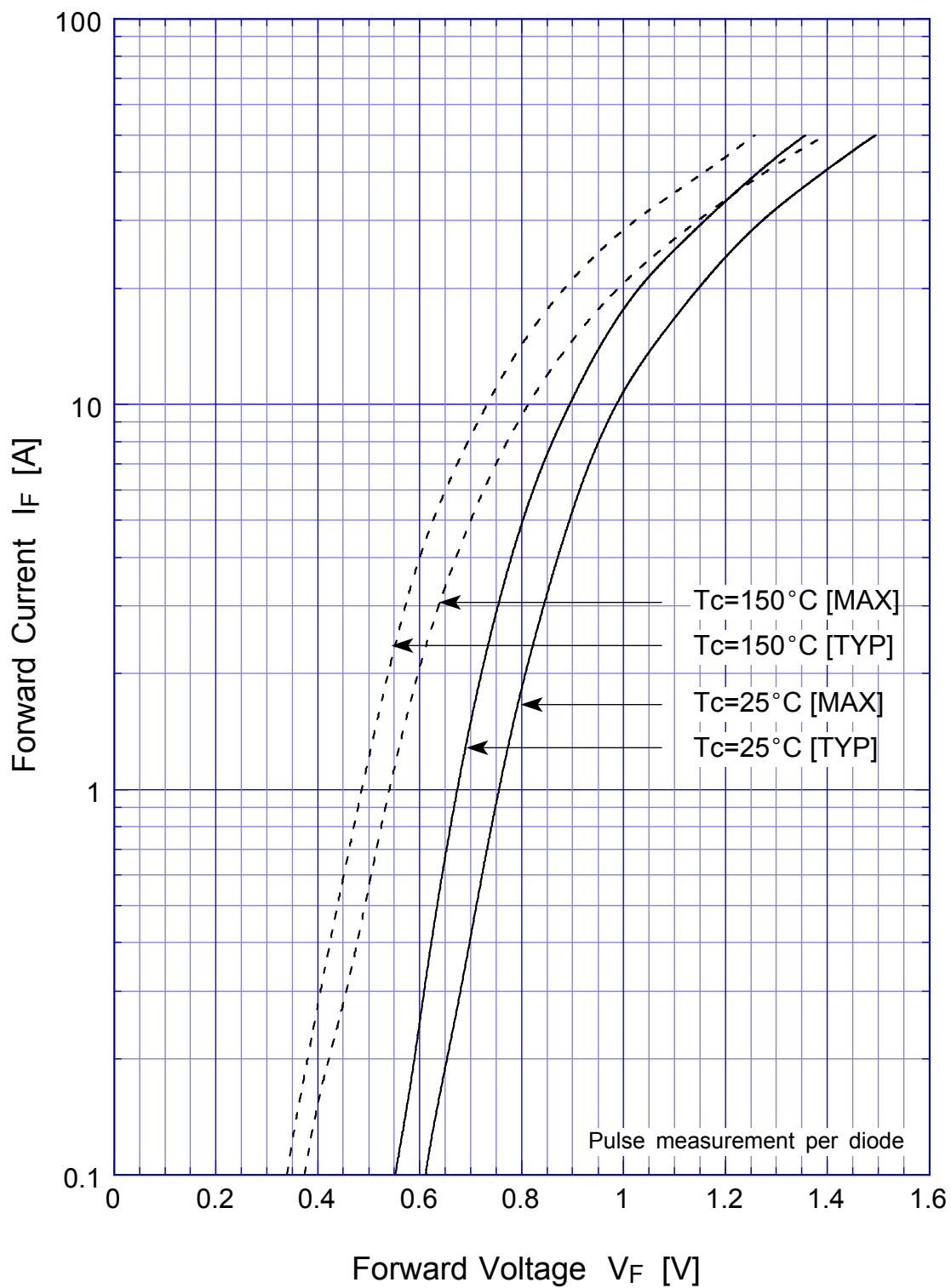
Absolute Maximum Ratings (If not specified $T_c=25$)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _o /2, T _c =123	20	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25	140	A
Mounting Torque	TOR	(Recommended torque 0.5N·m)	0.8	N·m

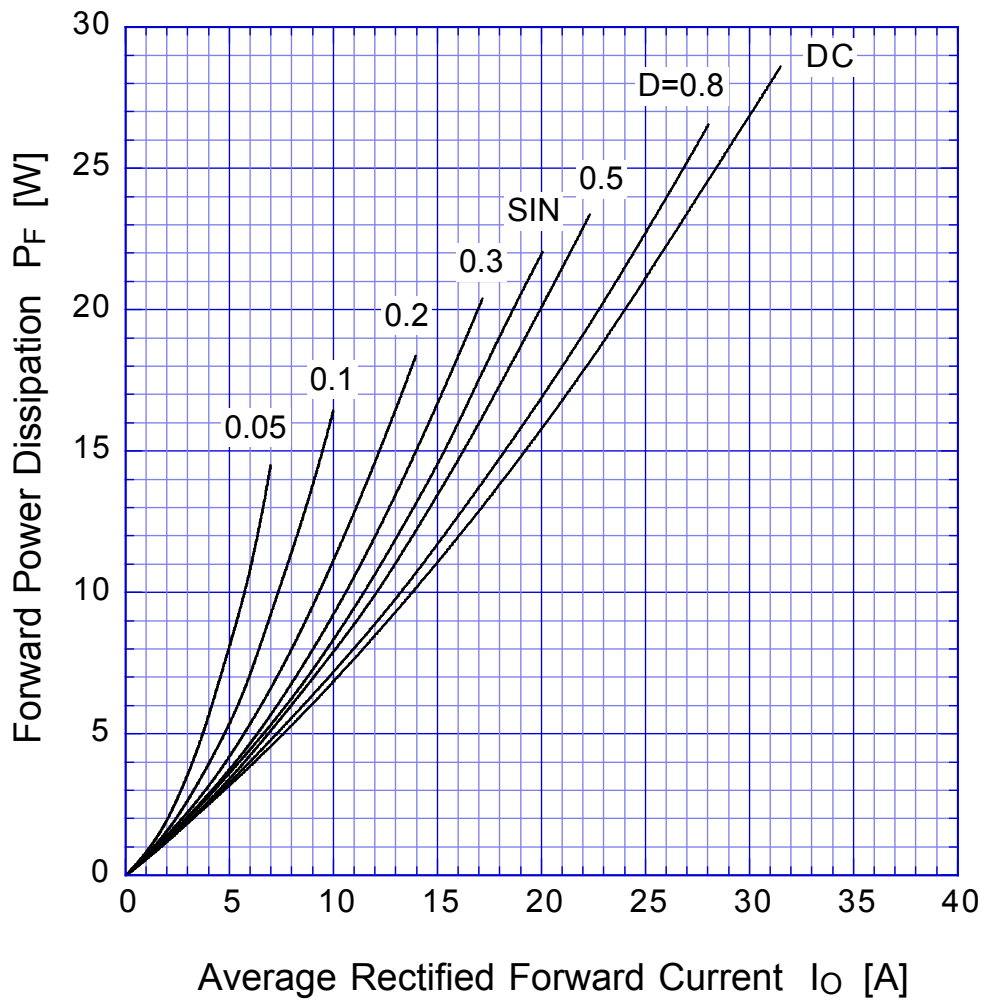
Electrical Characteristics (If not specified $T_c=25$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =10A, Pulse measurement, Rating of per diode	Max.0.98	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.35	ns
Thermal Resistance	jc	junction to case	Max.1.2	/W

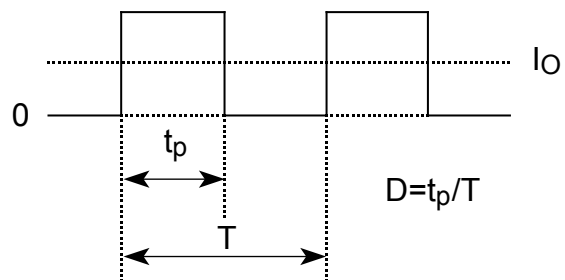
S20LC20U Forward Voltage



S20LC20U Forward Power Dissipation

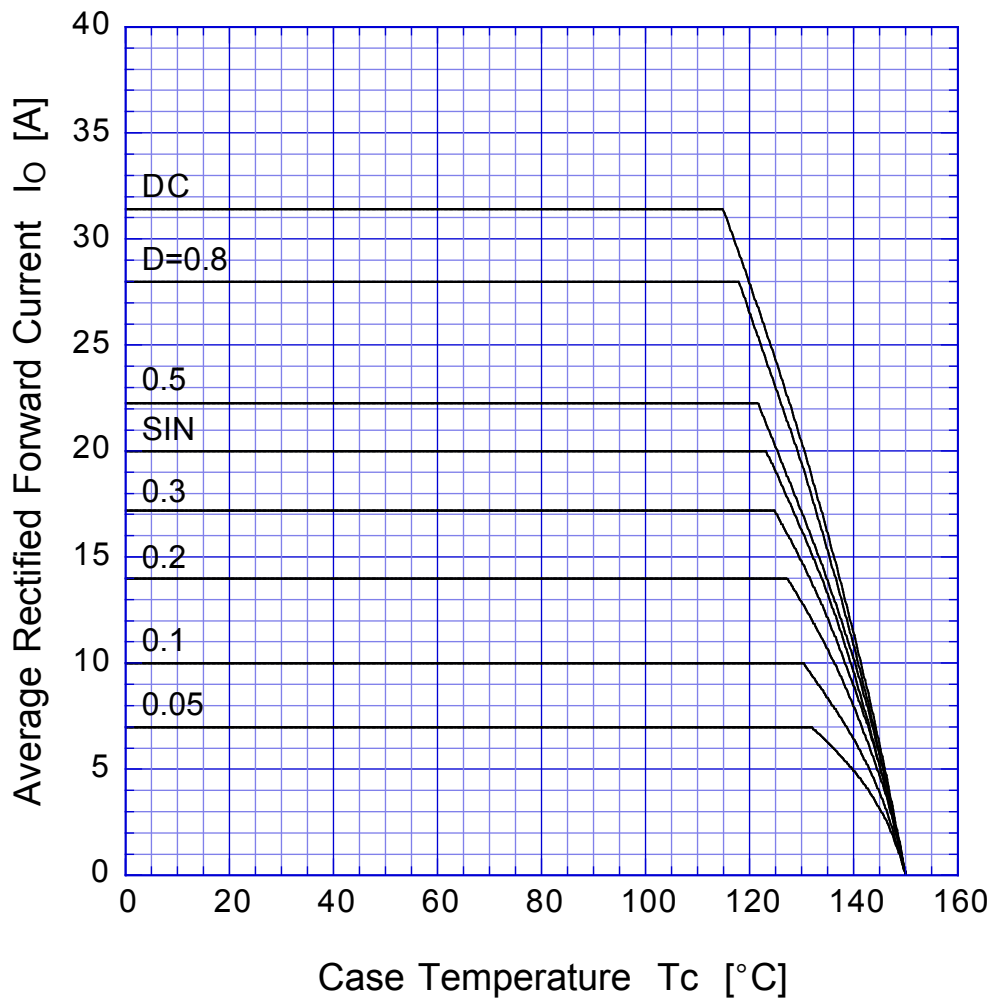


$T_j = T_{jmax}$



S20LC20U

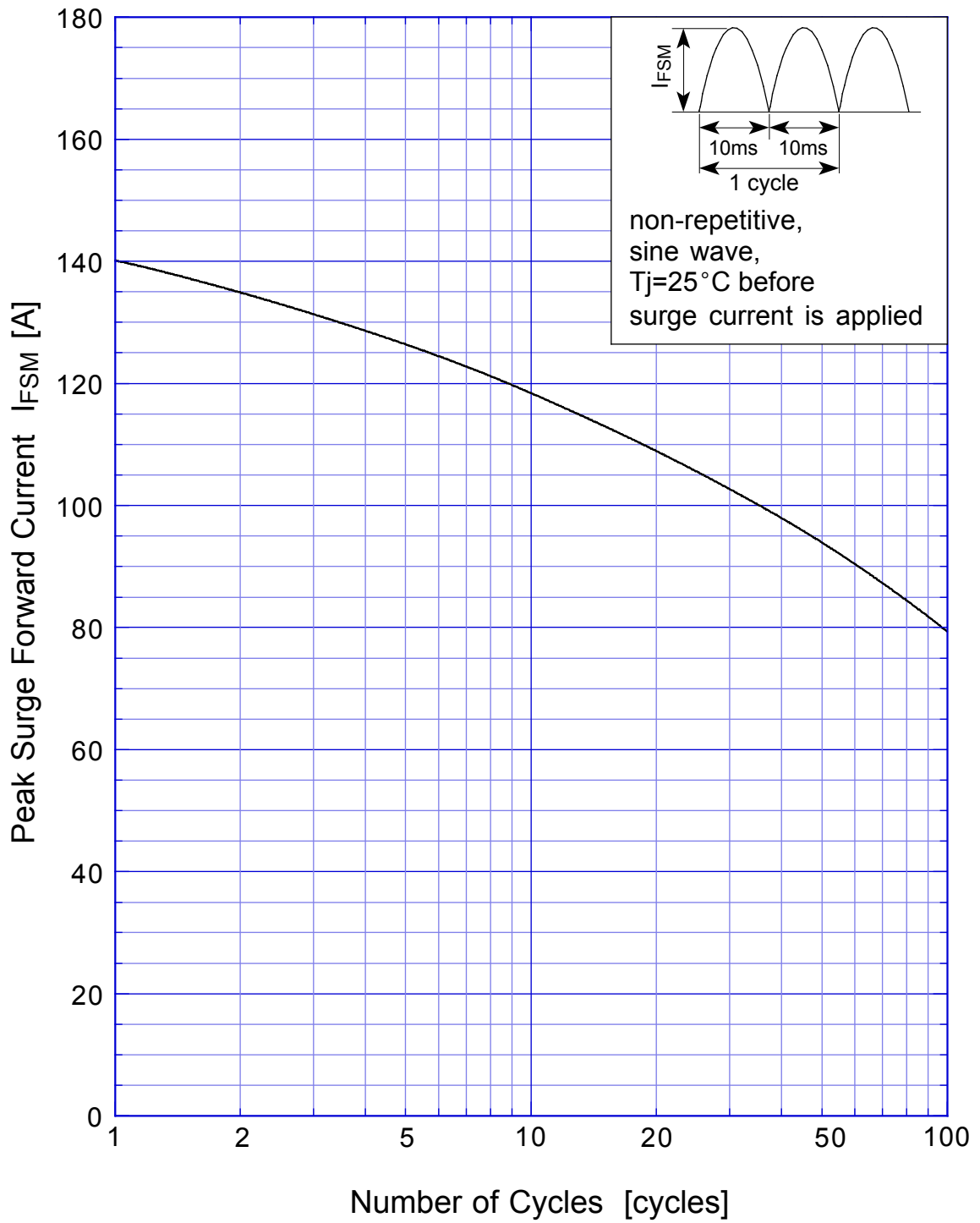
Derating Curve



$$V_R = V_{RM}$$



S20LC20U Peak Surge Forward Capability



S20LC20U Junction Capacitance

