

# SHINDENGEN

## Super Fast Recovery Rectifiers

Dual

# S20LC20U

## 200V 20A

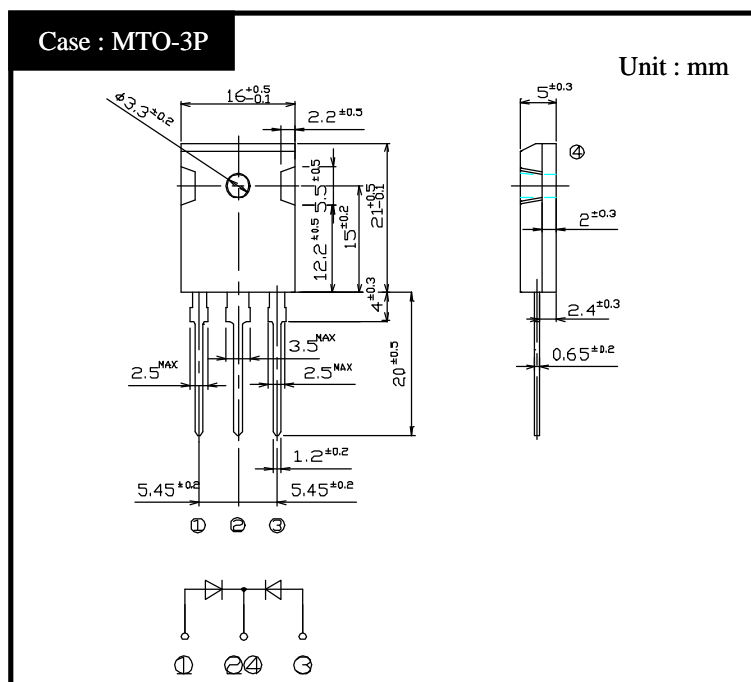
### FEATURES

- Low noise
- trr35ns
- Small jc
- Dielectric strength 2kV guaranteed

### APPLICATION

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

### OUTLINE DIMENSIONS



### RATINGS

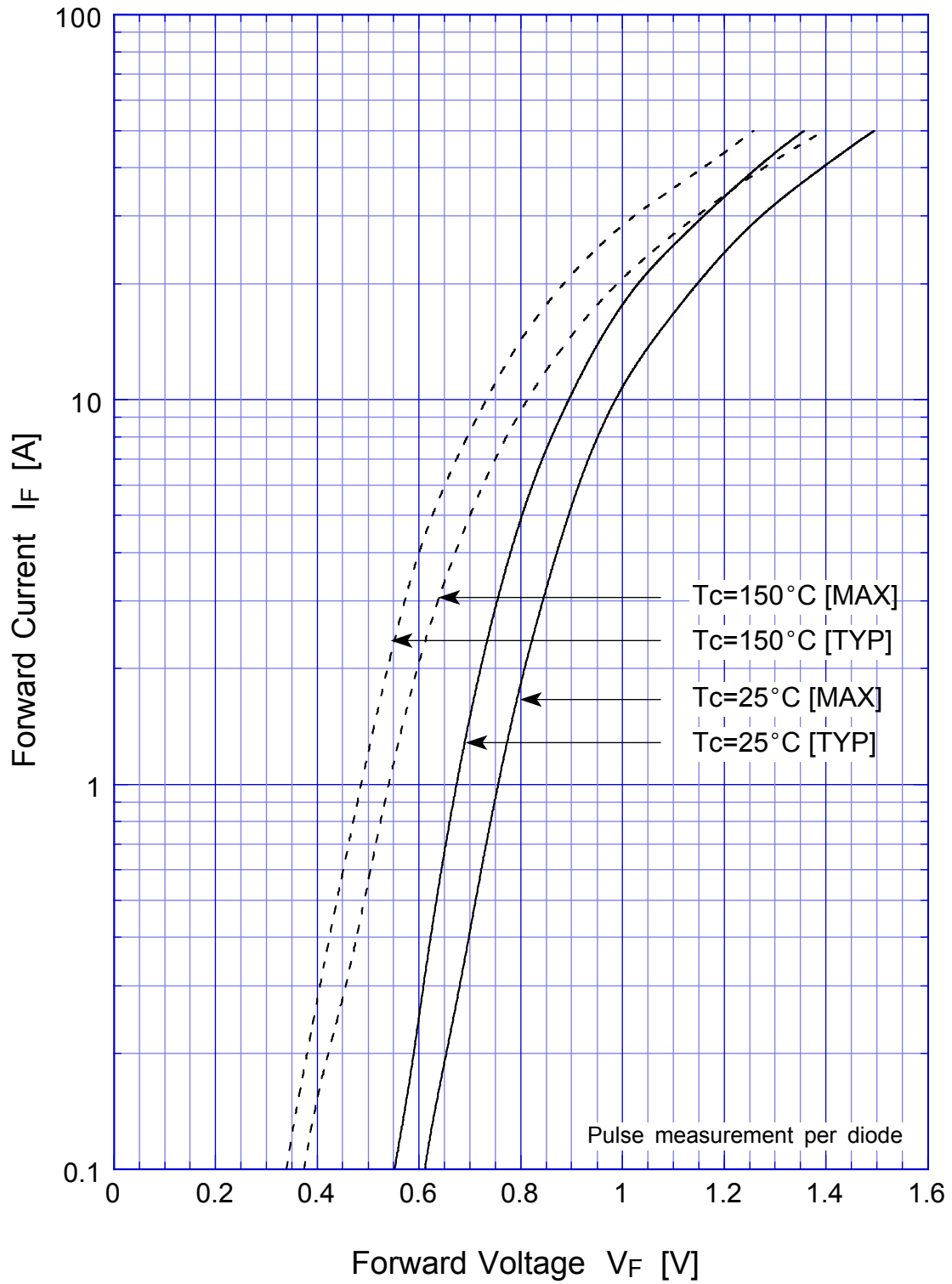
Absolute Maximum Ratings (If not specified Tc=25 )

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

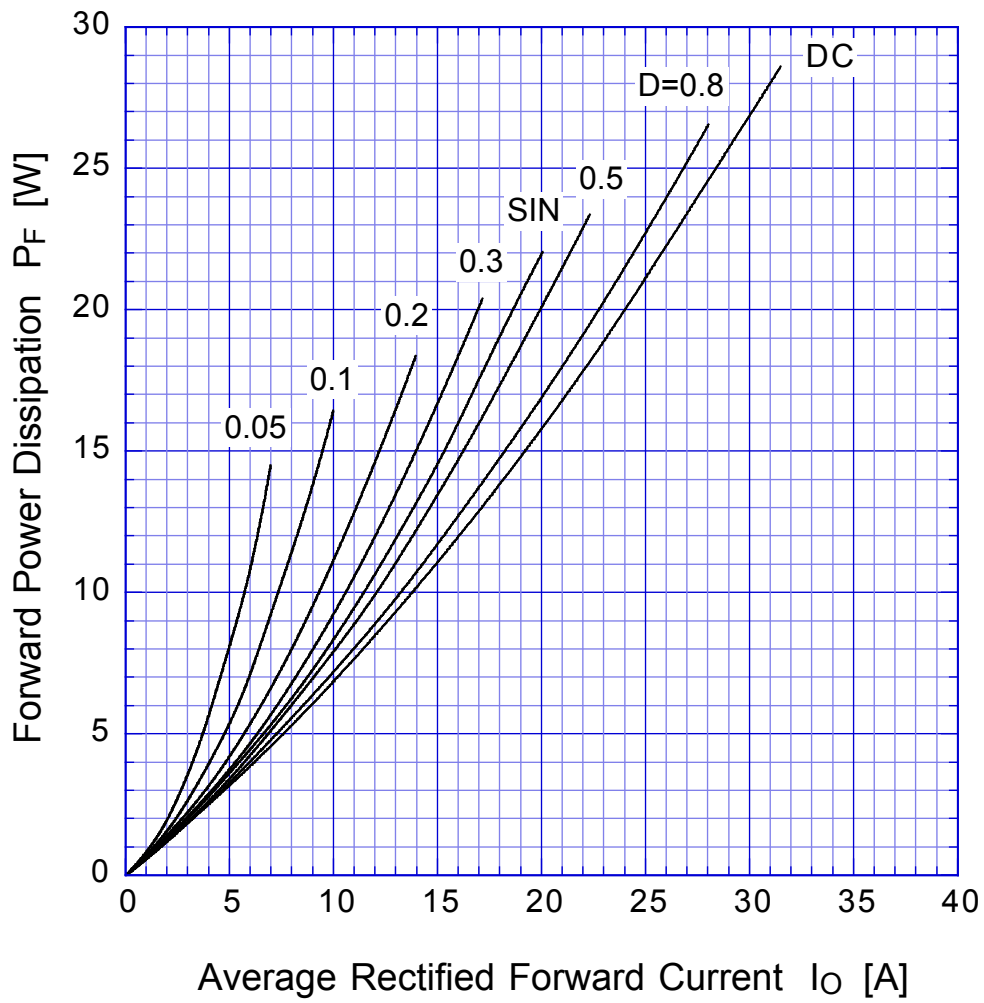
Electrical Characteristics (If not specified Tc=25 )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10A, Pulse measurement, Rating of per diode	Max.0.98	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement, Rating of per diode	Max.10	μ A
Reverse Recovery Time	trr	I <sub>F</sub> =0.5A, I <sub>R</sub> =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

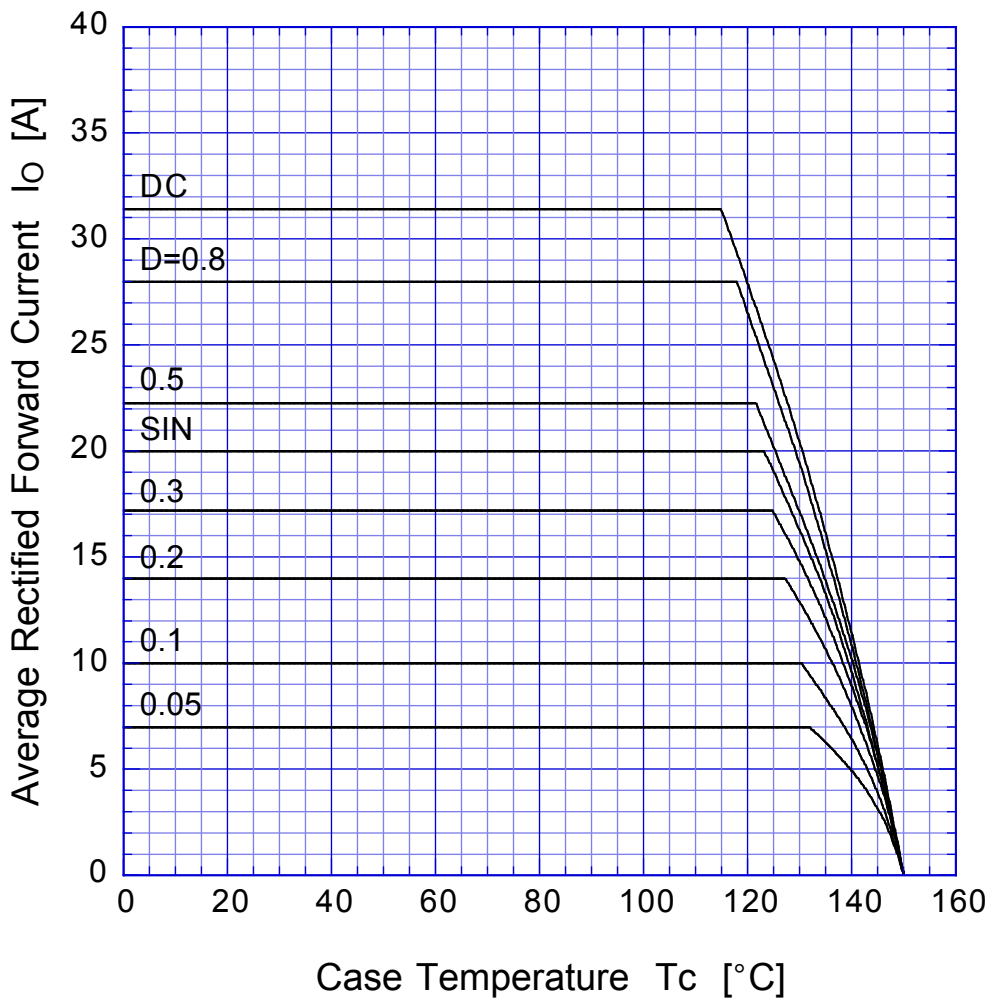


$T_j = T_{jmax}$



# S20LC20U

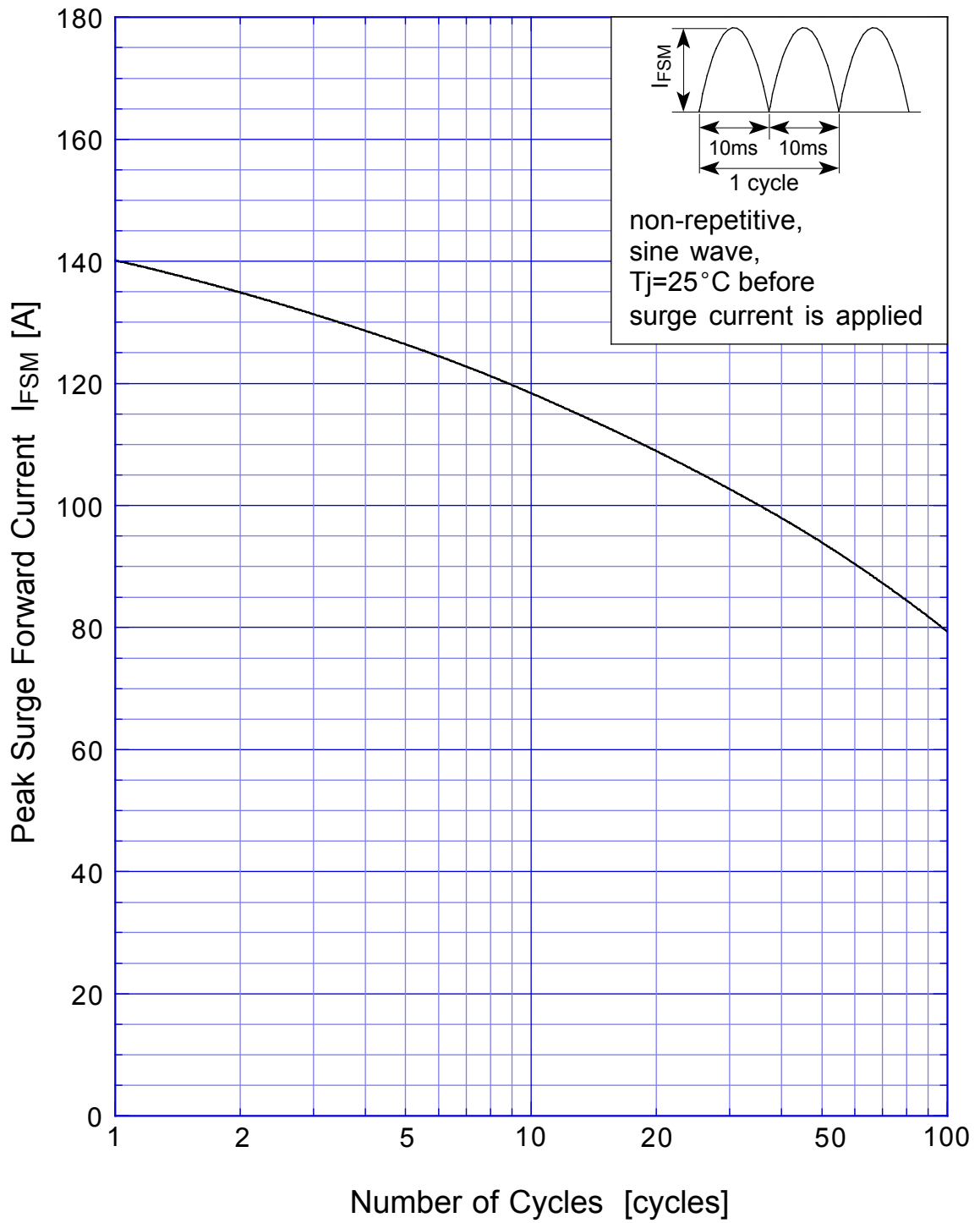
# Derating Curve



$$V_R = V_{RM}$$



# S20LC20U Peak Surge Forward Capability



# S20LC20U Junction Capacitance

