

D10SC9M

90V 10A

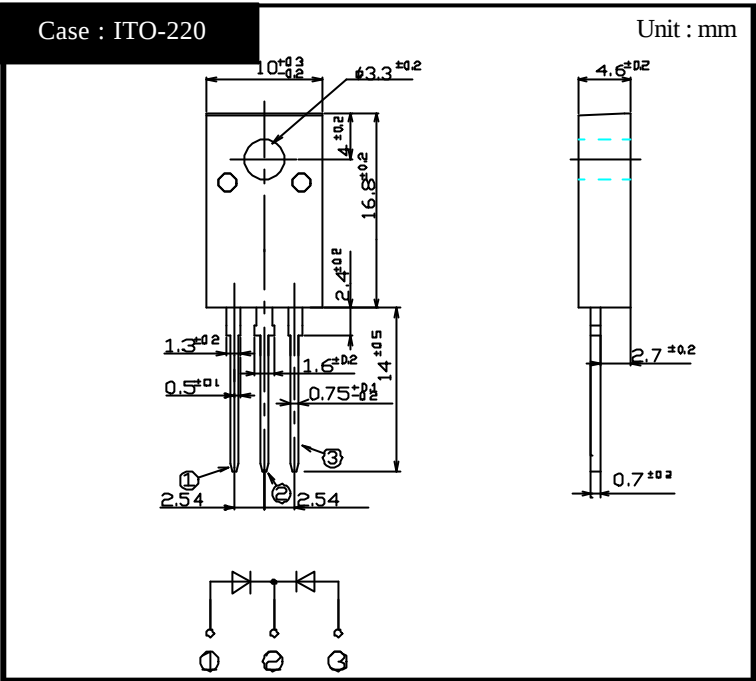
FEATURES

- Tj150
- PRRSM avalanche guaranteed
- Fully Isolated Molding

APPLICATION

- Switching power supply
- DC/DC converter
- Home Appliances, Office Equipment
- Telecommunication

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	VRM		90	V
Repetitive Peak Surge Reverse Voltage	VRSM	Pulse width 0.5ms, duty 1/40	100	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Rating for each diode Io/2, Tc=111	10	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=125	100	A
Repetitive Peak Surge Reverse Power	PRSM	Pulse width 10 μs, Rating of per diode, Tj=25	330	W
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	TOR	(Recommended torque 0.3N·m)	0.5	N·m

• Electrical Characteristics (If not specified Tc=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=5A, Pulse measurement, Rating of per diode	Max.0.75	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max.3	mA
Junction Capacitance	Cj	f=1MHz, VR=10V, Rating of per diode	Typ.185	pF
Thermal Resistance	θjc	junction to case	Max.3.3	/W
	θcf	case to heatsink, Mounting torque=0.5N·m	Max.1.5	
	θjf	junction to heatsink	Max.4.8	

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Forward Voltage

