

MUR8120

FEATURES

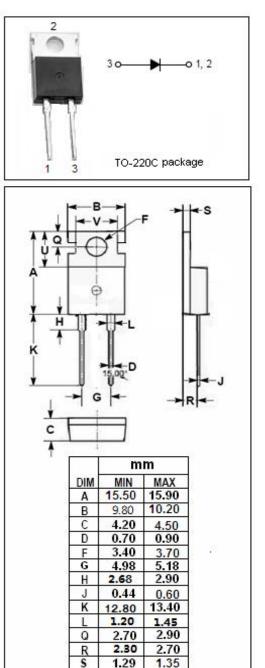
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- · Low forward voltage drop
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Freewheeling, Snubber, Clamp
- Inversion Welder
- PFC
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Converter & Chopper
- UPS

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	1200	V
IF(AV)	Average Rectified Forward Current Tc=110°C	8	A
I _{F(RSM)}	RMS Forward Current Tc=110°C	15	A
IFSM	Nonrepetitive Peak Surge Current Tj=45℃;t=10ms;50HZ;sine	100	A
TJ	Junction Temperature	-40~150	Ĉ
Tstg	Storage Temperature Range	-40~150	Ĉ



U

v

6.45

8.66

6.65

8.86



INCHANGE SEMICONDUCTOR

Ultra fast Rectifier

MUR8120

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.8	°C/W

ELECTRICAL CHARACTERISTICS(Ta=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =10A ;Tj=25℃ I _F =10A ;Tj=125℃	2.4 1.85	V
I _R	Maximum Instantaneous Reverse Current	V _R = 1200V;Tj=25℃ V _R = 1200V;Tj=125℃	100 500	μA
t _{rr}	Maximum Reverse Recovery Time	IF =1A;V _R =30V;diF/dt=200A/ μ s	22	ns

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