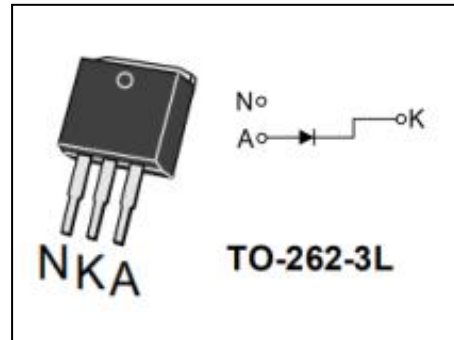


Ultrafast Rectifier

MURB1520-1

FEATURES

- Ultrafast recovery time
- 175°C Operating temperature
- Low forward voltage drop
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Switching power supply
- High frequency inverters

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current	15	A
I _{FSM}	Non-repetitive Peak Surge Current (Rated Load 8.3 Half Mssine Wave According to JEDEC Method))	260	A
T _J	Junction Temperature	-40~175	°C
T _{stg}	Storage Temperature Range	-40~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2	°C/W

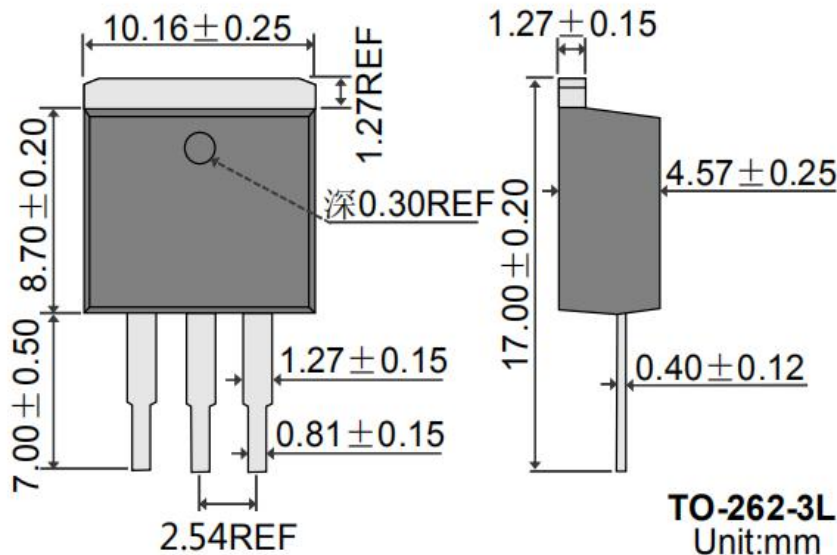
ELECTRICAL CHARACTERISTICS(T_a=25°C) (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 15A ; T _j =25°C I _F = 15A ; T _j =125°C	0.95 0.8	V
I _R	Maximum Instantaneous Reverse Current	V _R =200V V _R = 200V; T _j =125°C	0.01 1	mA
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A; I _R =1.0A ; I _{REC} =0.25A	35	ns

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PACKAGE OUTLINE



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