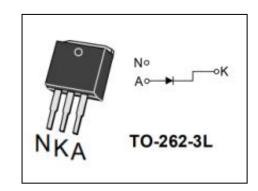


Ultrafast Rectifier

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(Ta=25℃)

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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	Α				
I _{FSM}	Non-repetitive Peak Surge Current ((Rated Load 8.3 Half Mssine Wave According to JEDEC Method))	260	Α				
T _J	Junction Temperature	-40~175	$^{\circ}$ C				
T _{stg}	Storage Temperature Range	-40~175	$^{\circ}$				

THERMAL CHARACTERISTICS

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

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

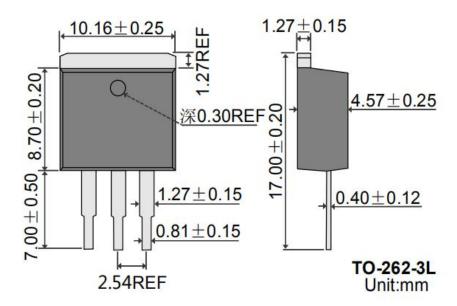
SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 15A ; Tj=25℃	0.95	V
		I _F = 15A ; Tj=125 ℃	0.8	
lR	Maximum Instantaneous Reverse Current	V _R =200V	0.01	mA
		V _R = 200V; Tj=125°C	1	
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A; I _R =1.0A; I _{REC} =0.25A	35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



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PACKAGE OUTLINE





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