

Schottky Barrier Rectifier

DSSK20-0045B

TO-220 Package

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FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss/High Efficiency
- High Surge Capability
- High Current Capability, Low Forward Voltage Drop
- Minimum Lot-to-Lot variations for robust device
 performance and reliable operation

APPLICATIONS

- Low Voltage High Frequency Switching Power Supply.
- · Low Voltage High Frequency Invers Circuit.
- Low Voltage Continued Circuit and Protection Circuit.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{RRM} V _{RWM} VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	45	V			
IF(AV)	Average Rectified Forward Current (Rated V _R) T _C = 125 $^{\circ}$ C	20	A			
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	160	A			
TJ	Junction Temperature	-40~150	°C			
T _{stg}	Storage Temperature Range	-40~150	°C			
dv/dt	Voltage Rate of Change (Rated V _R)	1000	V / μ s			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.0	°C/W



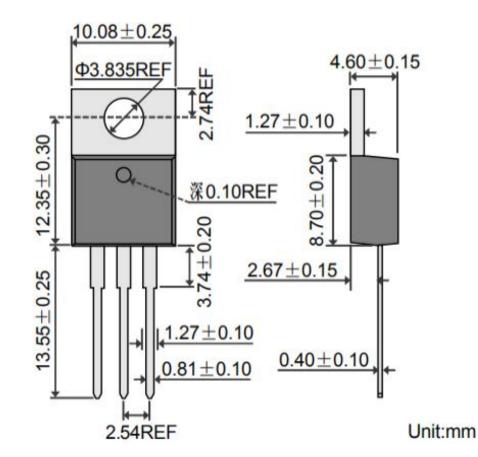
INCHANGE SEMICONDUCTOR

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SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 10A ; T _C = 25℃ I _F = 10A ; T _C = 125℃	0.65 0.6	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 [°] C Rated DC Voltage, T _C = 125 [°] C	5.0 50	mA





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