

Schottky Barrier Rectifier
TSSD10L45SW
FEATURES

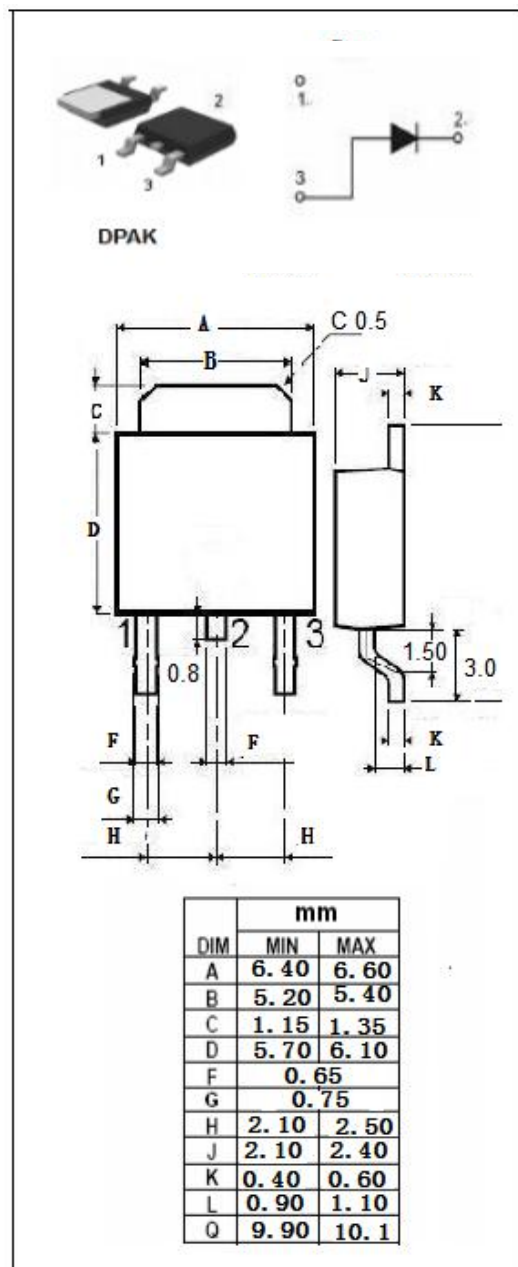
- Low Forward Voltage
- High Frequency
- Extremely low reverse leakage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching mode power supplies
- Lighting application
- DC/DC Converters

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage DC Blocking Voltage	45	V
I _{F(AV)}	Average Rectified Forward Current	10	A
I _{FSM}	Non-repetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load per diode)	120	A
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	19	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300us, Duty Cycle \leq 2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Forward Voltage per diode	$I_F=10A; T_J=25^{\circ}C$	0.55	V
		$I_F=10A; T_J=125^{\circ}C$	0.5	
I_R	Reverse Current per diode	$V_R=45V; T_J=25^{\circ}C$	50	μA
		$V_R=45V; T_J=125^{\circ}C$	20	mA

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