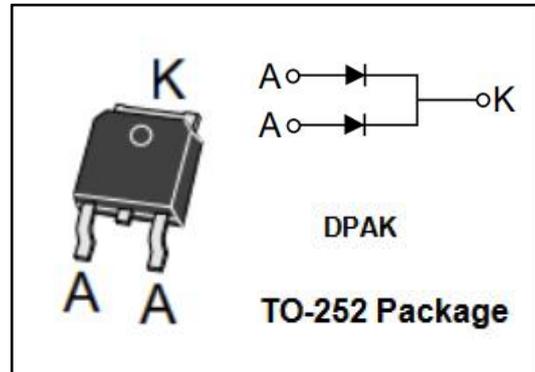


Schottky Barrier Rectifier
STPS15L60CB
FEATURES

- Multi-layer Metal -Silicon Potential Structure
- Low Leakage Current
- High Current Capability, High Efficiency
- High Junction Temperature Capability


MECHANICAL CHARACTERISTICS

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

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

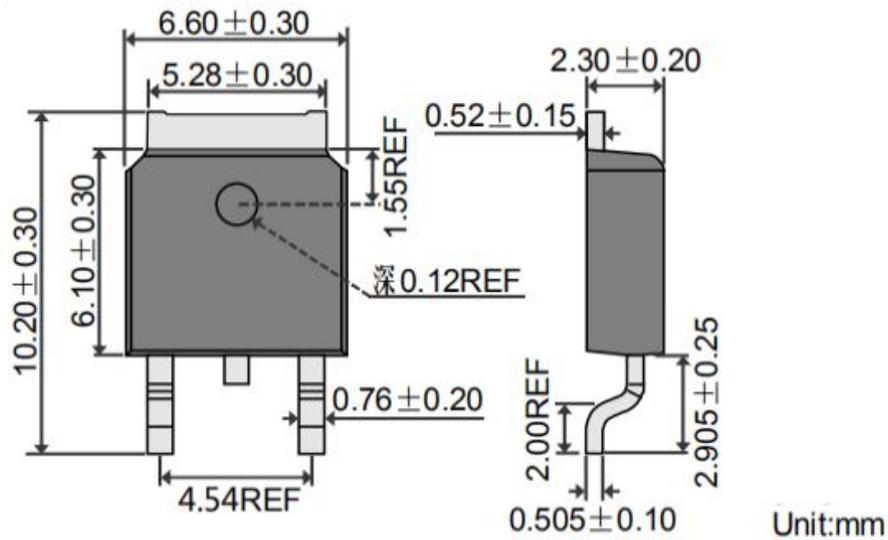
SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	60	V
$I_{F(AV)}$	Average Rectified Forward Current Per device	115	A
I_{FSM}	Non-repetitive Peak Surge Current	75	A
$I_{F(RSM)}$	Forward rms current	10	A
P_D	Repetitive peak avalanche power	265	W
T_J	Junction Temperature	-55~150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case Per diode	4	$^{\circ}\text{C/W}$
$R_{th\ j-c}$	Thermal Resistance, Junction to Case Total	2.4	$^{\circ}\text{C/W}$

Schottky Barrier Rectifier
STPS15L60CB
ELECTRICAL CHARACTERISTICS (T_a=25°C)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 7.5A; T _c = 25°C	0.62	V
V _F	Maximum Instantaneous Forward Voltage	I _F = 7.5A ; T _c = 125°C	0.76	V
V _F	Maximum Instantaneous Forward Voltage	I _F = 12A ; T _c = 25°C	0.57	V
V _F	Maximum Instantaneous Forward Voltage	I _F = 12A ; T _c = 125°C	0.76	V
V _F	Maximum Instantaneous Forward Voltage	I _F = 15A ; T _c = 25°C	0.82	V
V _F	Maximum Instantaneous Forward Voltage	I _F = 15A ; T _c = 125°C	0.72	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; T _c = 25°C	200	uA
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; T _c = 125°C	60	Ma
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A; I _R =1A	30	ns

PACKAGE OUTLINE (UNIT: MM)


Product Disclaimer

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.