

Schottky Barrier Diode USFB16LA

Switching Type Power Supply Applications

FEATURES

- Low Profile Surface Mount Package
- Low Power Loss, High Efficiency
- For Use in Low Voltage and Low Reverse Current, High Frequency inverters, Free Wheeling, and Polarity Protection Applications

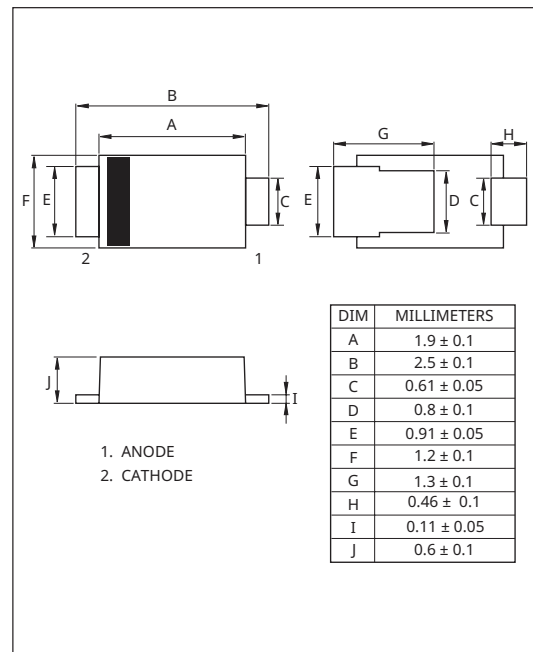
APPLICATION

- Switching Power Supply
- Reversed Battery Connection Protection
- DC/DC Converter
- Cellular Phones

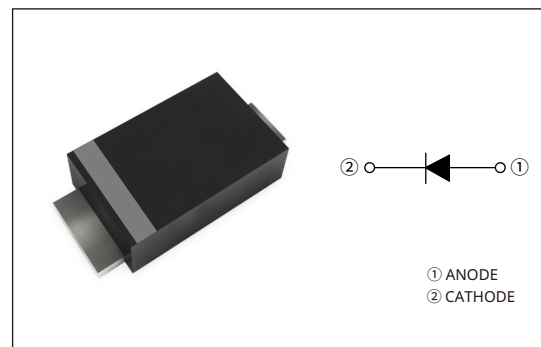
ORDERING INFORMATION

PART NUMBER	QTY PER REEL	REEL SIZE
USFB16LA	3,000pcs	7 inch

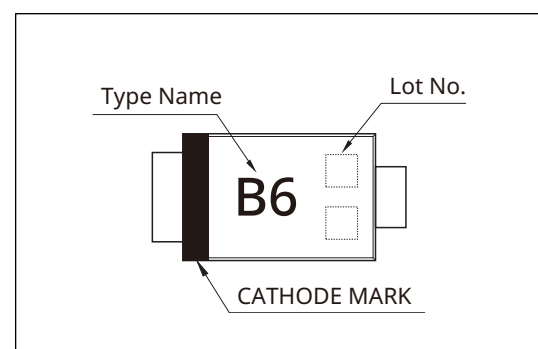
PACKAGE DIMENSION(USF)



PIN CONFIGURATION



MARKING CODE



PRODUCT DATASHEET

Schottky Barrier Diode - USFB16LA

MAXIMUM RATING (T_a=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	60	V
Average Output Rectified Current	I _O	1	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I _{FSM}	25	A
Power Dissipation	P _D *	700	mW
Junction Temperature	T _J	-40~150	°C
Storage Temperature Range	T _{STG}	-40~150	°C

*Mounted on a glass epoxy board(of 1 X 1 inch)

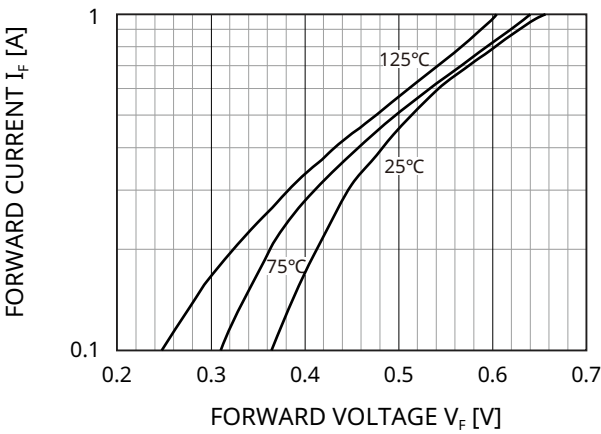
ELECTRICAL CHARACTERISTICS (T_a=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} =1A	-	-	0.7	V
Repetitive Peak Reverse Current	I _{RRM}	V _R =60V	-	-	50	μA
Total Capacitance	C _T	V _R =0V, f=1MHz	-	100	-	pF
Thermal Resistance	R _{th(j-a)}	Junction to Ambient	-	-	178.6	°C/W

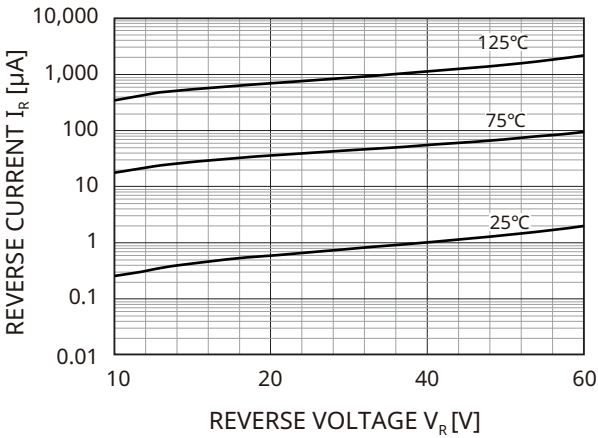
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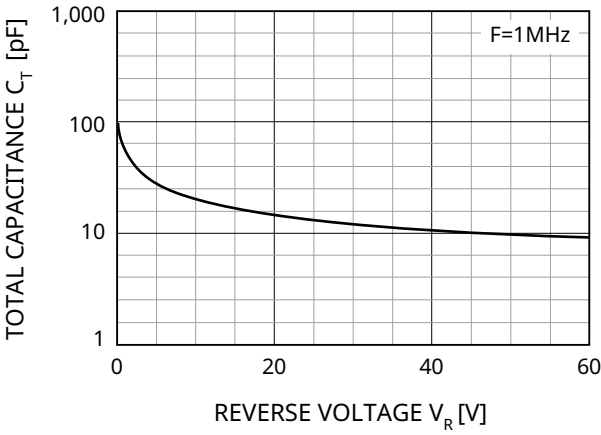
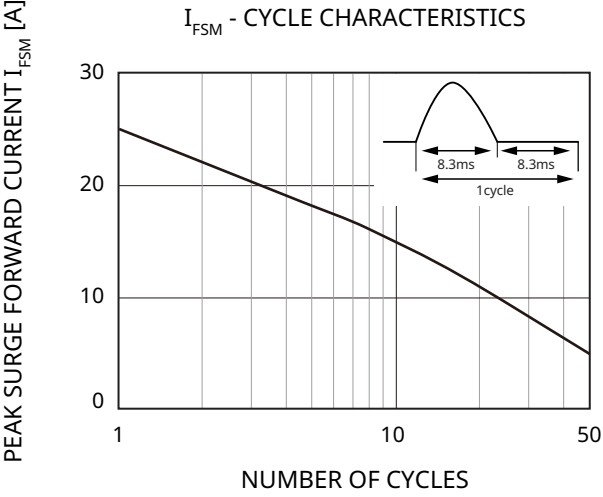
FORWARD CURRENT VS. FORWARD VOLTAGE



REVERSE CURENT VS. REVERSE VOLTAGE



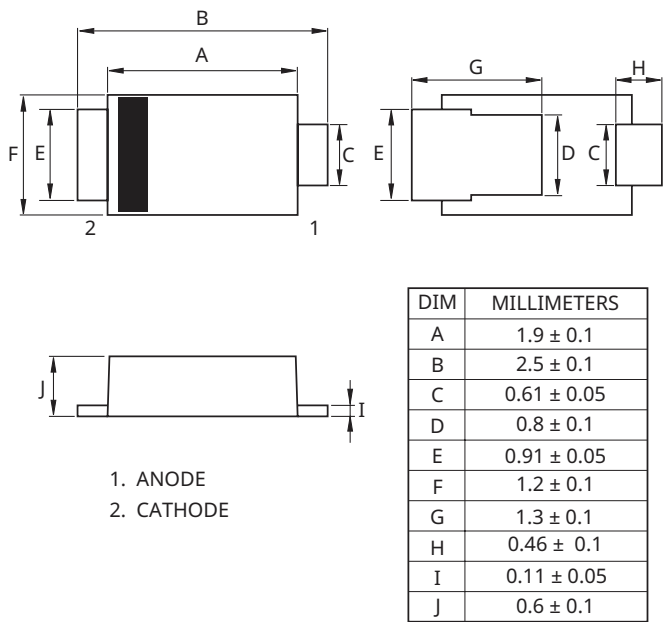
TOTAL CAPACITANCE VS. REVERSE VOLTAGE



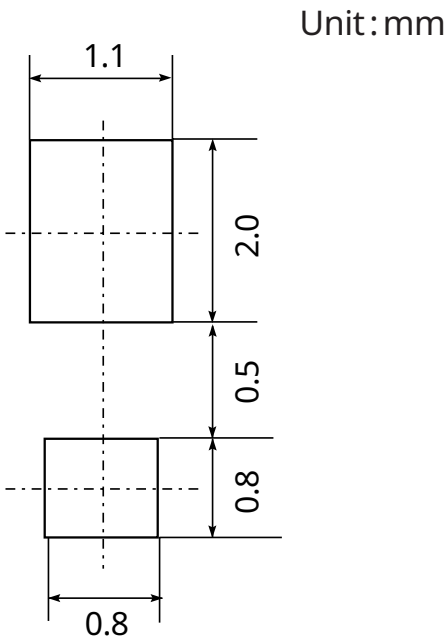
PRODUCT DATASHEET

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PACKAGE INFORMATION(USF)



RECOMMENDED PAD DIMENSION



PRECAUTION ON USING KEC PRODUCTS

1. The products described in this data are intended to be used in general-purpose electronic equipment.
(Office equipment, telecommunication equipment, measuring equipment, home appliances)
2. When you intend to use these products with equipment or device which require an extremely high of reliability and special applications (such as automobile, air travel aerospace, transportation equipment, life support, system and safety devices) in which special quality and reliability and the failure or malfunction of products may directly jeopardize or harm the human body or damage to property and any application other than the standard application intended, please be sure to consult with our sales representative in advance.
3. On designing your application, please use product within the ranges guaranteed by KEC for maximum rating, operating supply voltage range, heat radiation characteristics and other characteristics. User shall be responsible for failure or damage when used beyond the guaranteed ranges.
4. The technical information described in this data is limited to showing representative characteristics and applied circuit examples of the products and it does not constitute the warranting of industrial property, the granting of relative rights, or the granting of any license.
5. What are described in the data may be changed without any prior notice to reflect new technical development. Please confirm that you have received the latest product standards or specification before final design, purchase or use.
6. Although KEC is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. KEC shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by KEC.

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