

Schottky Barrier Diode for Switching Type Power Supply Applications

KDR713W

FEATURES

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

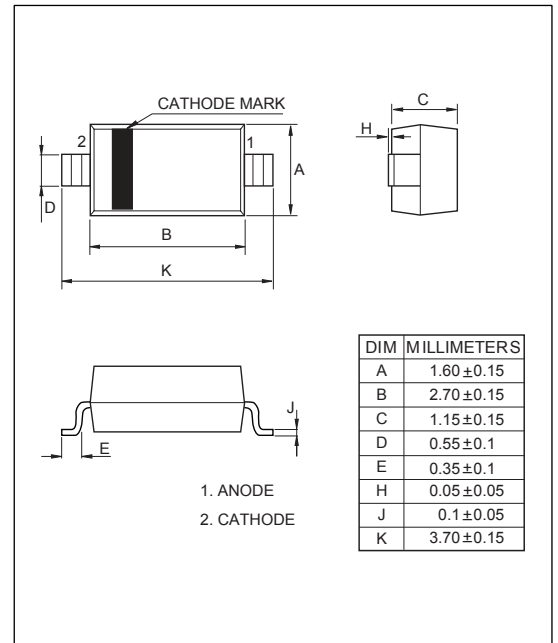
APPLICATIONS

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

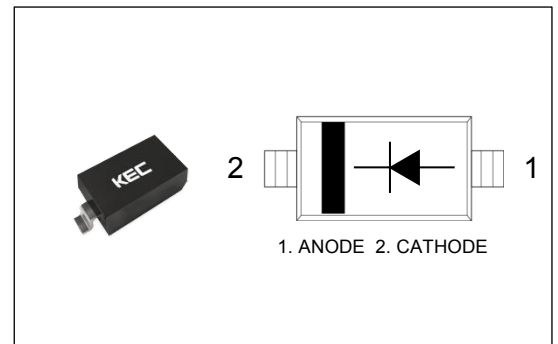
ORDERING INFORMATION

PART NUMBER	QTY PER Reel	Reel SIZE
KDR713W-RTK	3,000	7 inch

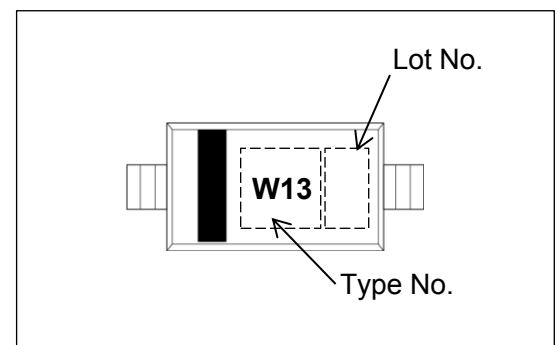
PACKAGE DIMENSION (SOD-123)



PIN CONFIGURATION



MARKING CODE



PRODUCT DATASHEET

Schottky Barrier Diode – KDR713W

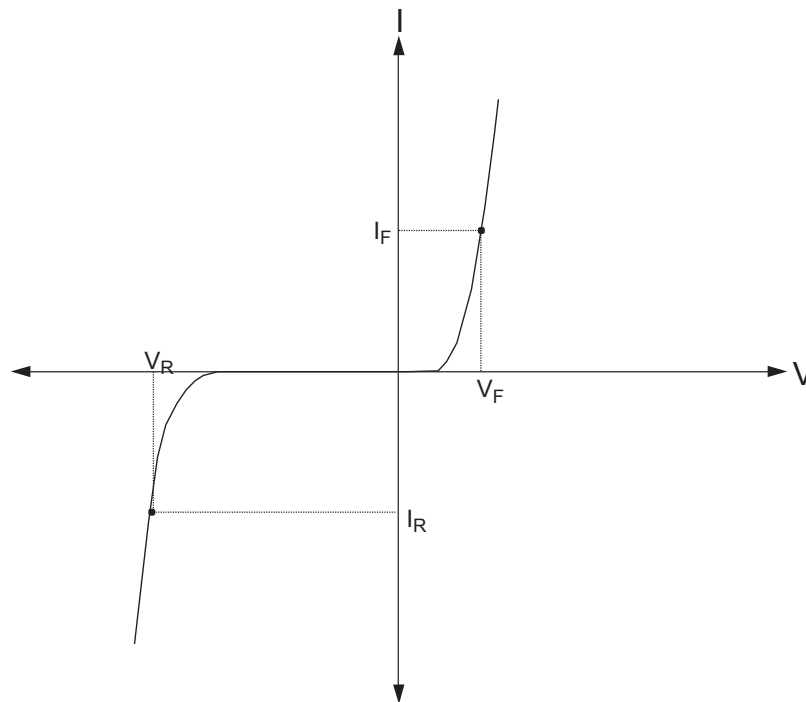
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Output Rectified Current	I_O	1	A
Peak forward surge current with 8.3ms single half sine wave (Note 1)	I_{FSM}	4	A
Power Dissipation	$*P_D$	500	mW
Junction Temperature	T_J	-40~125	°C
Storage Temperature	T_{STG}	-40~125	°C

Note 1) Non-repetitive pulse

* Mounted on a glass epoxy board of 4 x 4cm, pad dimension of 3.8 x 3.8cm

DEFINITIONS OF ELECTRICAL CHARACTERISTIC SYMBOL

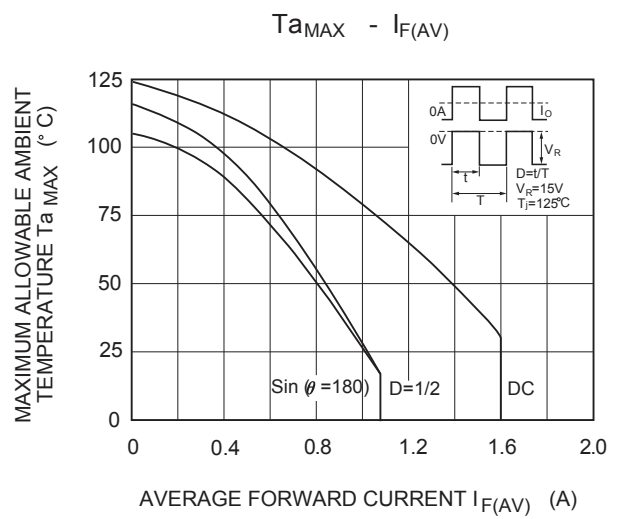
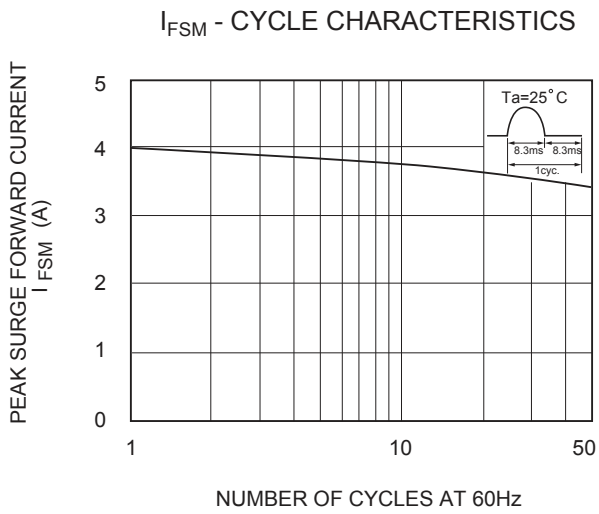
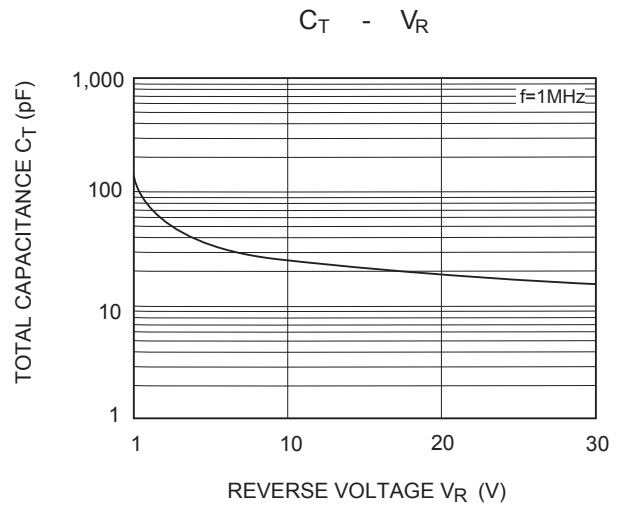
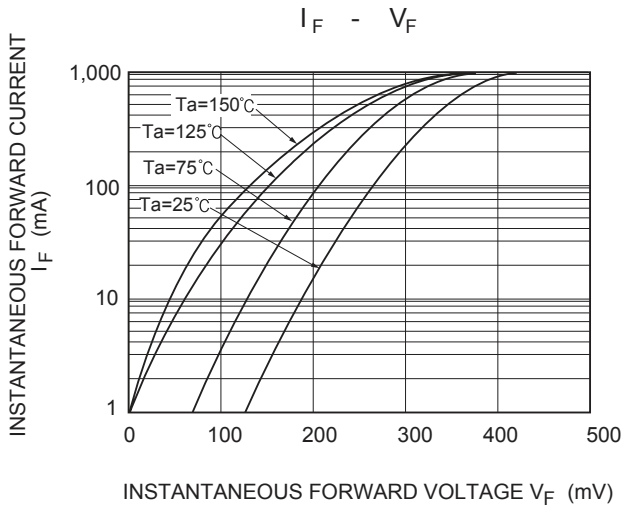


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=1.0A$	-	0.45	0.5	V
Repetitive Peak Reverse Current	$I_{RRM(1)}$	$V_{RRM}=5V$	-	15	40	μA
	$I_{RRM(2)}$	$V_{RRM}=30V$	-	40	200	μA
Total Capacitance	C_T	$V_R=10V, f=1MHz$	-	30	-	pF

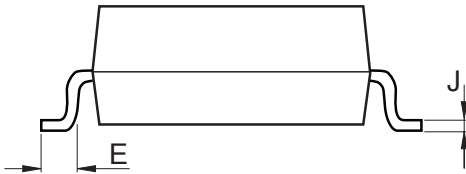
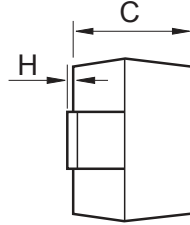
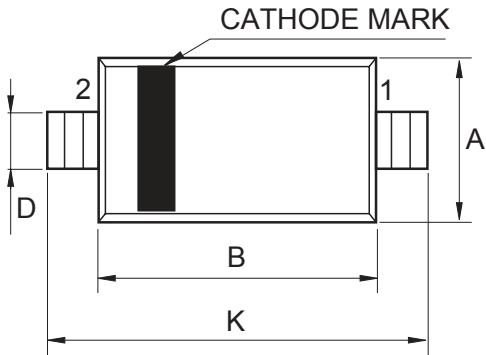
PRODUCT DATASHEET

Schottky Barrier Diode – KDR713W



PRODUCT DATASHEET
Schottky Barrier Diode – **KDR713W**

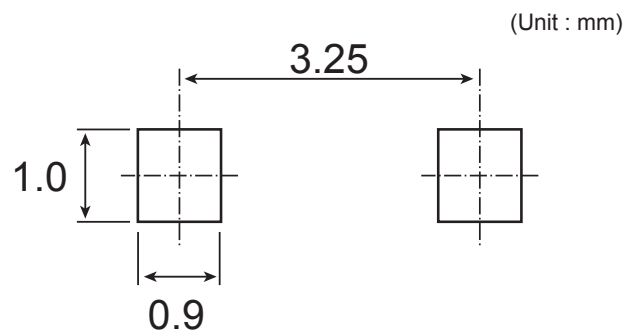
PACKAGE INFORMATION (SOD-123)



1. ANODE
2. CATHODE

DIM	MILLIMETERS
A	1.60±0.15
B	2.70±0.15
C	1.15±0.15
D	0.55±0.1
E	0.35±0.1
H	0.05±0.05
J	0.1±0.05
K	3.70±0.15

RECOMMENDED PAD DIMENSION



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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.
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