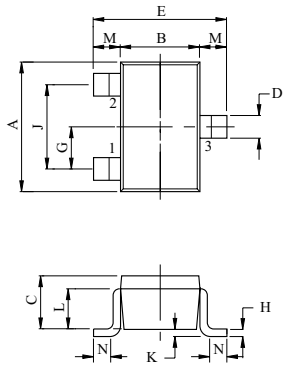
KDR731

SCHOTTKY BARRIER TYPE DIODE
(SERIES CONNECTION)

HIGH SPEED RECTIFICATION
(SWITCHING REGULATORS, CONVERTERS, CHOPPERS)
UNIVERSAL-USE RECTIFIERS.

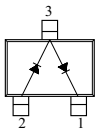
FEATURES

- Low Forward Voltage : V_F max=0.55V
- Fast reverse recovery time (trr max=10nS)
- Low switching noise.
- Low leakage current and high reliablility due to Highly reliable planar structure.
- Series connection of 2 elements in an ultrasmall-sized Package facilitates high-density mounting and permits KDR731 applied equipment to be made smaller.



DIM	MILLIMETERS
A	2.00±0.20
B	1.25±0.15
C	0.90±0.10
D	0.3+0.10/-0.05
E	2.10± 0.20
G	0.65
H	0.15+0.1/-0.06
J	1.30
K	0.00-0.10
L	0.70
M	0.42±0.10
N	0.10 MIN

1. CATHODE 1
2. ANODE 2
3. ANODE1/ CATHODE 2

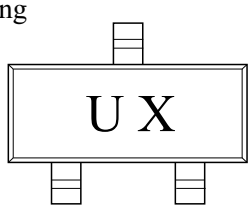


USM

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive (Peak) Reverse Voltage	V_{RRM}	30	V
Non-Repetitive (Peak) Reverse Sourge Voltage	V_{RSM}	35	V
Average Forward Current	I_O	70	mA
Surge Forward Current	I_{FSM}	2	A
Junction Temperature	T_j	125	℃
Storage Temperature Range	T_{stg}	-55 ~ 125	℃

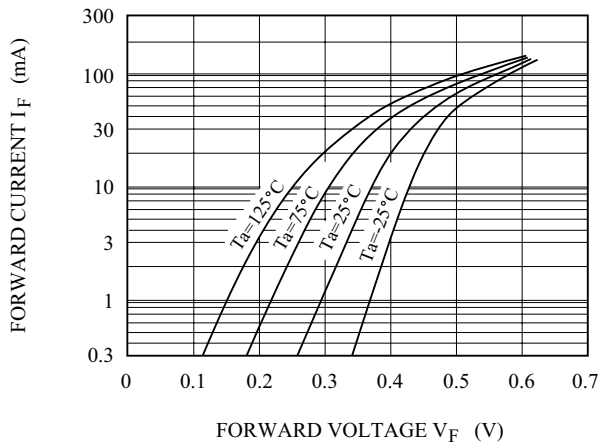
Marking



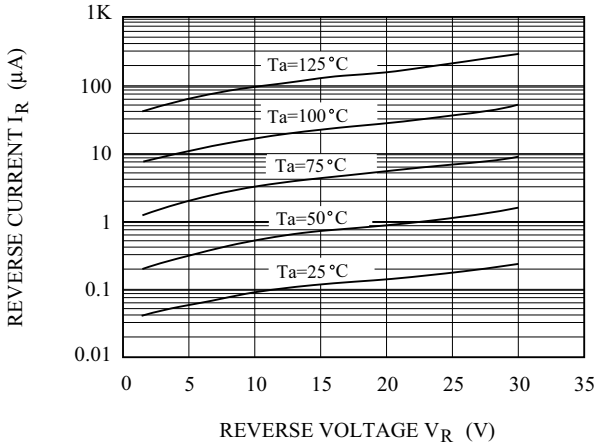
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	I_R=20 μA	30	-	-	V
Forward Voltage	V_F	I_F=70mA	-	-	0.55	V
Reverse Current	I_R	V_R=15V	-	-	5	μA
Total Capacitance	C_T	V_R=10V, f=1MHz	-	5.0	-	pF
Reverse Recovery Time	t_{rr}	I_R=I_F=10mA	-	-	10	nS

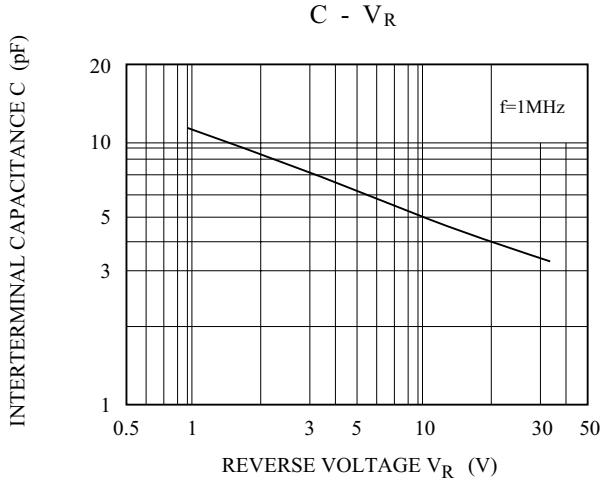
I_F - V_F



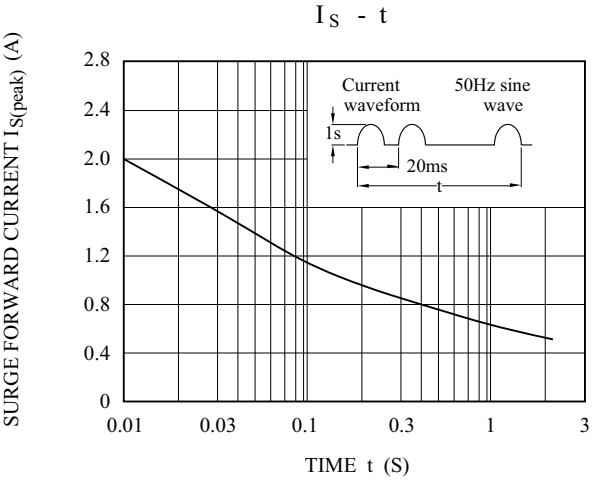
I_R - V_R



C - V_R



I_S - t



t_{rr} TEST CIRCUIT

Duty≦10%