

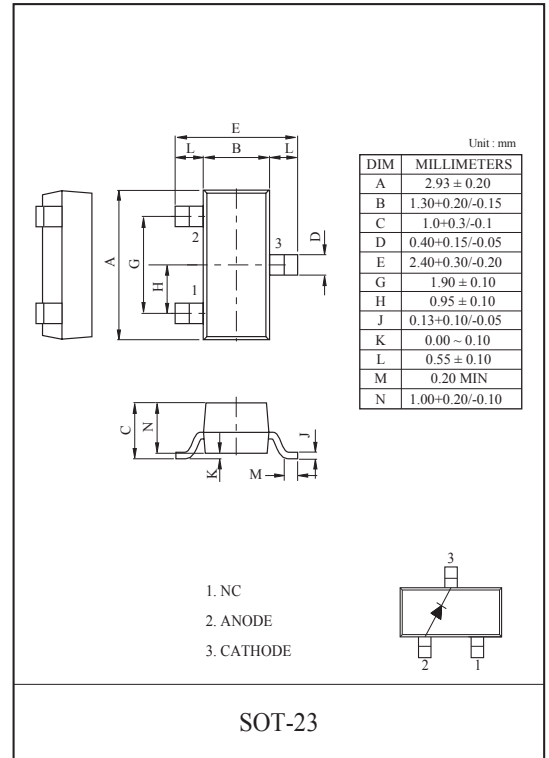
High Voltage Switching.

### FEATURES

- High Reliability.
- Small surface mounting type (SOT-23).
- Suffix U : Qualified to AEC-Q101.  
ex) KDS135S-RTK/PU

### MAXIMUM RATING (Ta=25°C)

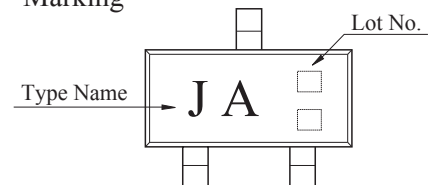
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	$V_{RM}$	300	V
Reverse Voltage	$V_R$	250	V
Maximum (Peak) Forward Current	$I_{FM}$	300	mA
Average Forward Current	$I_O$	100	mA
Surge Current (10mS)	$I_{FSM}$	2	A
Power Dissipation	$P_D$	150	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

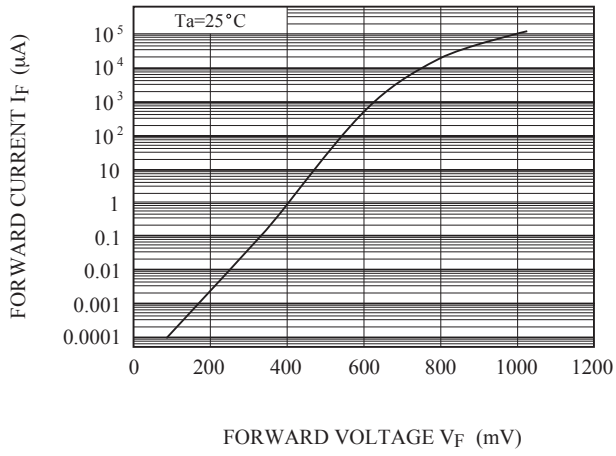
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$	$I_F=100mA$	-	1.0	1.2	V
Reverse Current	$I_{R(1)}$	$V_R=250V$	-	0.04	0.2	μA
	$I_{R(2)}$	$V_R=300V$	-	-	100	
Total Capacitance	$C_T$	$V_R=0V, f=1MHz$	-	1.35	3	pF
Reverse Recovery Time	$t_{rr}$	$I_R=30mA, I_F=30mA$	-	30	100	nS

Marking

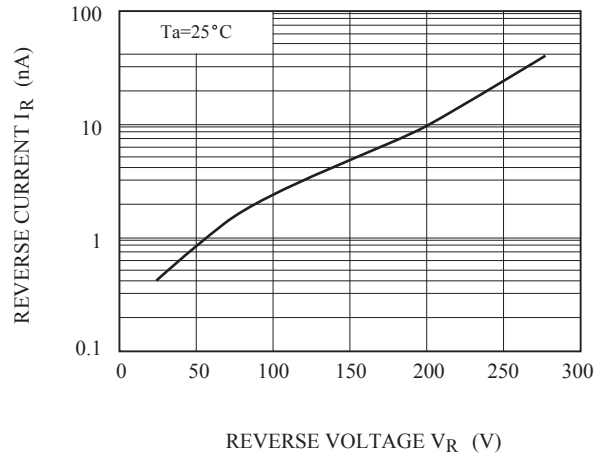


# KDS135S

$I_F - V_F$



$I_R - V_R$



$C_T - V_R$

