

ULTRA HIGH SPEED SWITCHING APPLICATION.

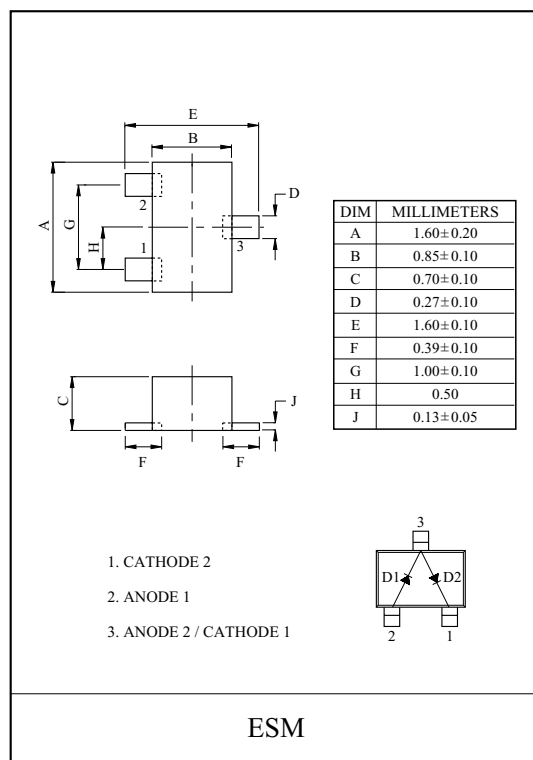
#### FEATURES

- Low Forward Voltage
- Fast Reverse Recovery Time
- Small Total Capacitance
- Ultra- Small Surface Mount Package

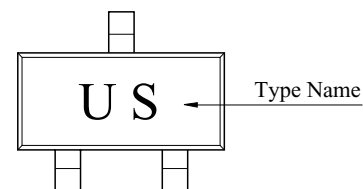
#### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	$V_{RM}$	80	V
Reverse Voltage	$V_R$	80	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	$P_D$	100	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

\* Unit Rating. Total Rating=Unit Rating  $\times$  0.7



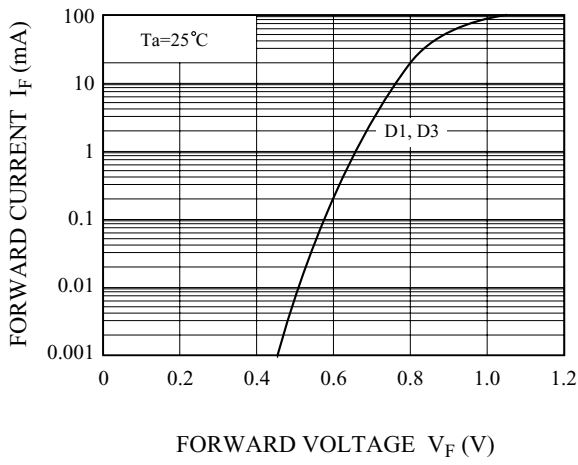
#### Marking



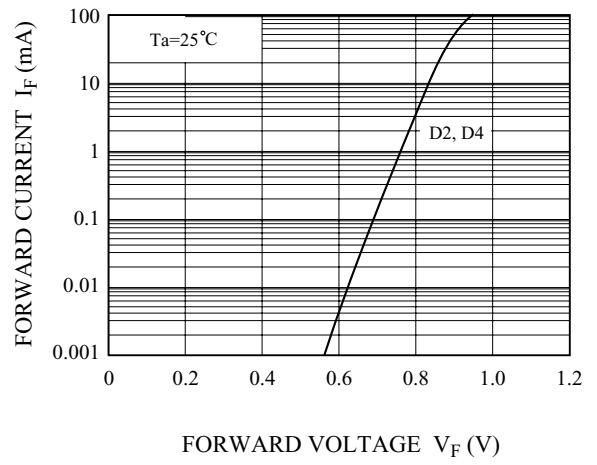
#### ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$	$I_F=100mA$	-	-	1.2	V
Reverse Current	$I_R$	$V_R=80V$	-	-	0.1	$\mu A$
Total Capacitance	$C_T$	$V_R=6V, f=1MHz$	-	-	3.5	pF

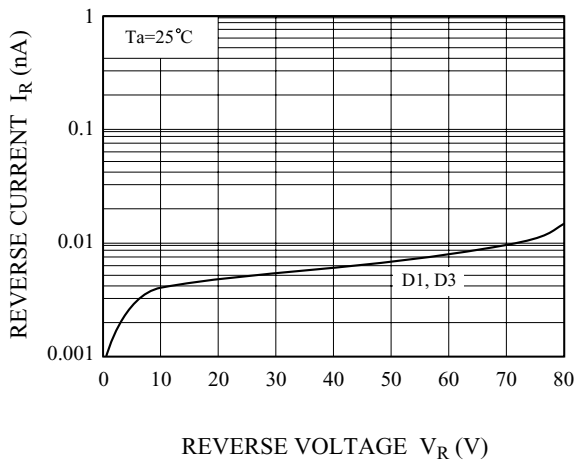
$I_F - V_F$



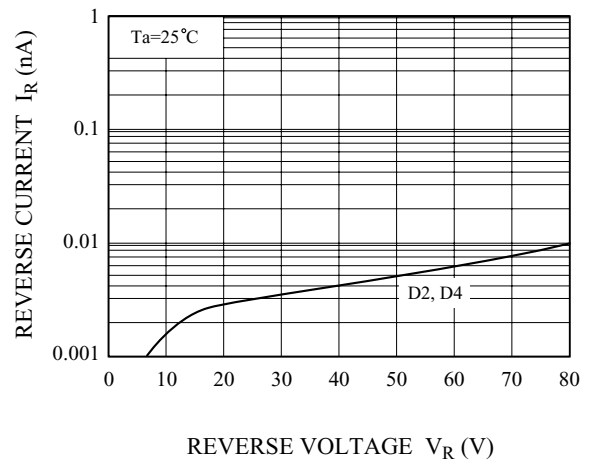
$I_F - V_F$



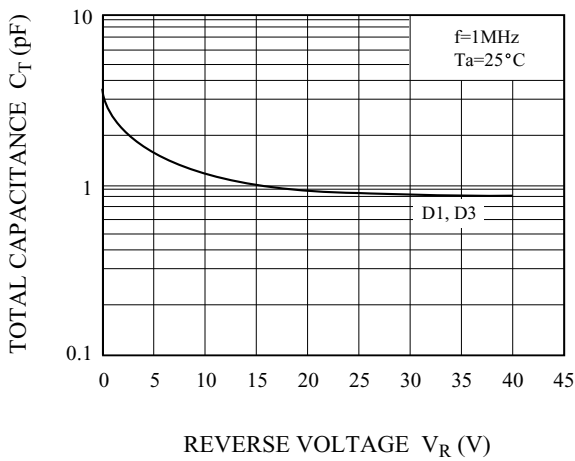
$I_R - V_R$



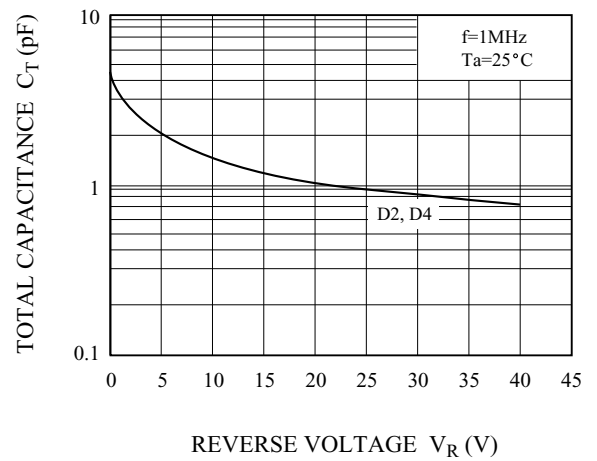
$I_R - V_R$



$C_T - V_R$



$C_T - V_R$



# KDS123E

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P - Ta

