

FOR HIGH SPEED SWITCHING.

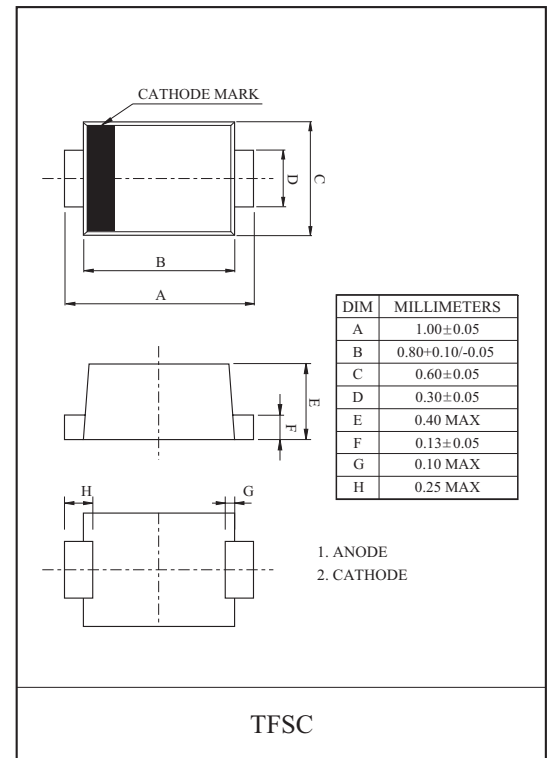
### FEATURES

- Low reverse current, low capacitance.
- Suffix U : Qualified to AEC-Q101.  
ex) KDR582F-RTK/HU

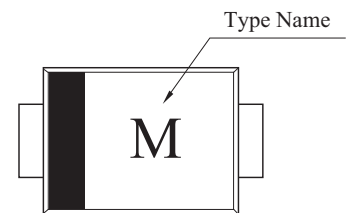
### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	5	V
Average Forward Current	$I_O$	10	mA
Surge Current (10ms)	$I_{FSM}$	130	mA
Power Dissipation	$P_D^*$	100	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

\* Mounted on a glass epoxy circuit board of 20 × 20mm, Pad Dimension of 4 × 4mm



Marking

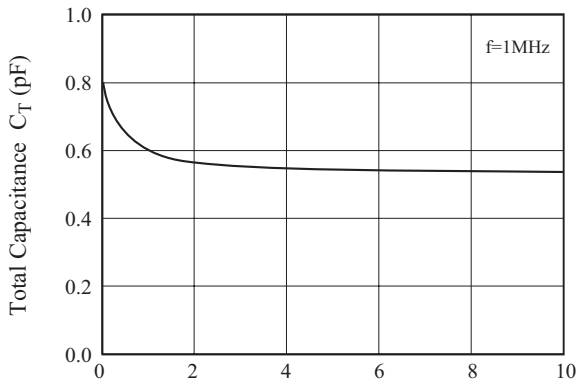


### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$	$I_F=0.1mA$	0.2	-	0.35	V
		$I_F=1mA$	0.25	-	0.45	
		$I_F=10mA$	0.35	-	0.6	
Reverse Current	$I_R$	$V_R=3V$	-	-	0.25	$\mu A$
		$V_R=3V, T_A=60$	-	-	1.25	
Total Capacitance	$C_T$	$V_R=0V, f=1MHz$	0.4	-	0.75	pF
Series Resistance	$r_S$	$I_F=5mA, f=10kHz$	-	-	15	

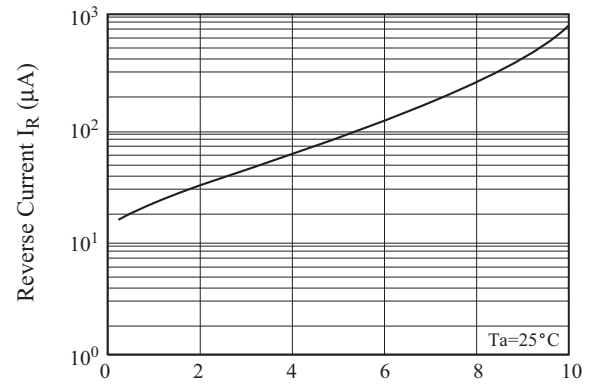
# KDR582F

$C_T - V_R$



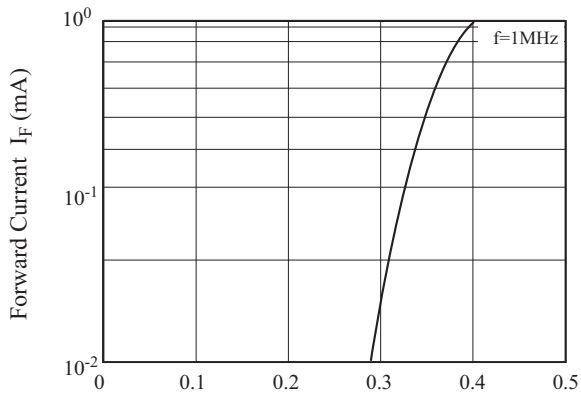
Reverse Voltage  $V_R$  (V)

$I_R - V_R$



Reverse Current  $V_R$  (V)

$V_F - I_F$



Forward Voltage  $V_F$  (V)