

FOR HIGH SPEED SWITCHING.

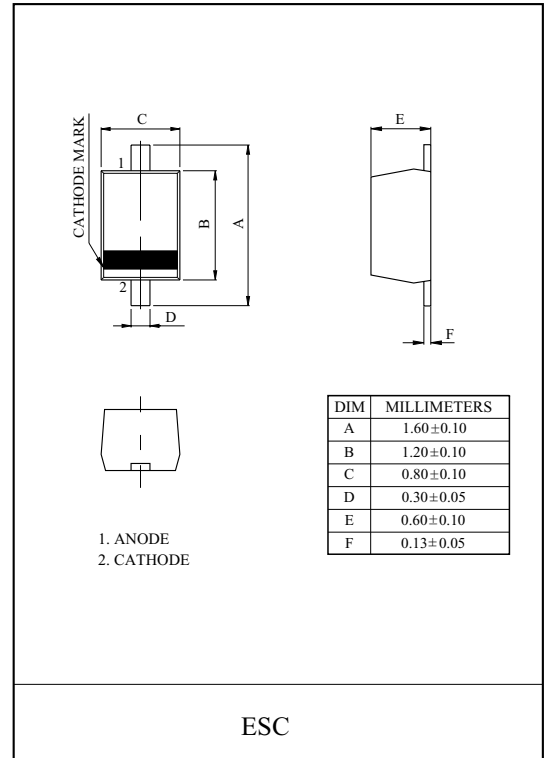
FEATURES

- Low reverse current, low capacitance.
- Small package : ESC.

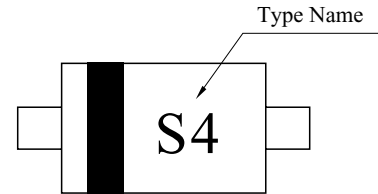
MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_R	4	V
Reverse Voltage	V_R	4	V
Forward Current	I_F	130	mA
Power Dissipation	P_D^*	150	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

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



Marking

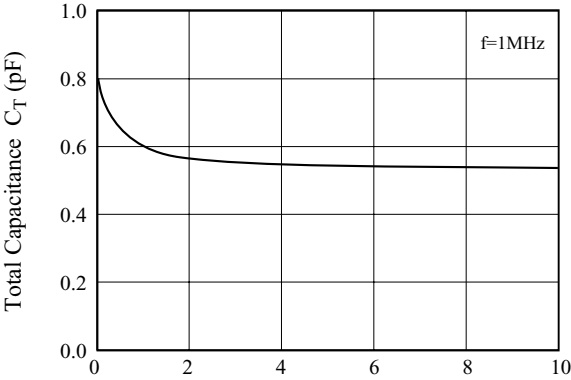


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

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

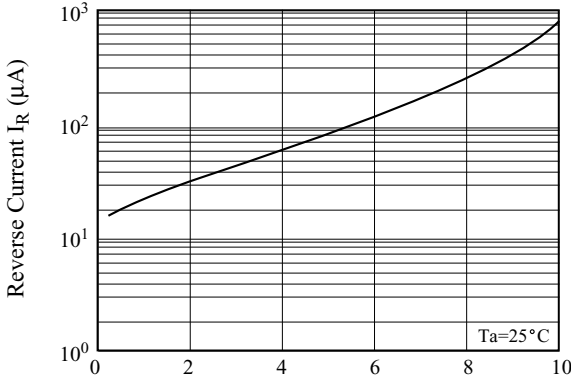
KDR582E

$C_T - V_R$



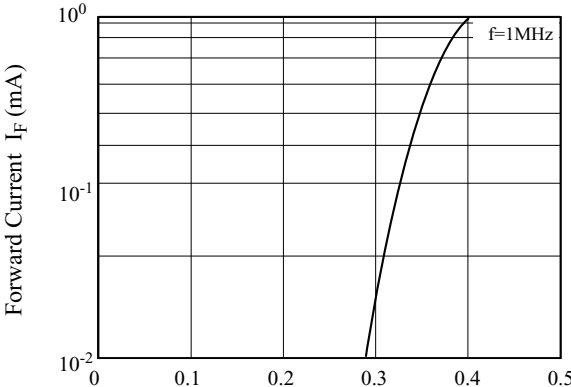
Reverse Voltage V_R (V)

$I_R - V_R$



Reverse Current V_R (V)

$V_F - I_F$



Forward Voltage V_F (V)