

ULTRA HIGH SPEED SWITCHING APPLICATION.

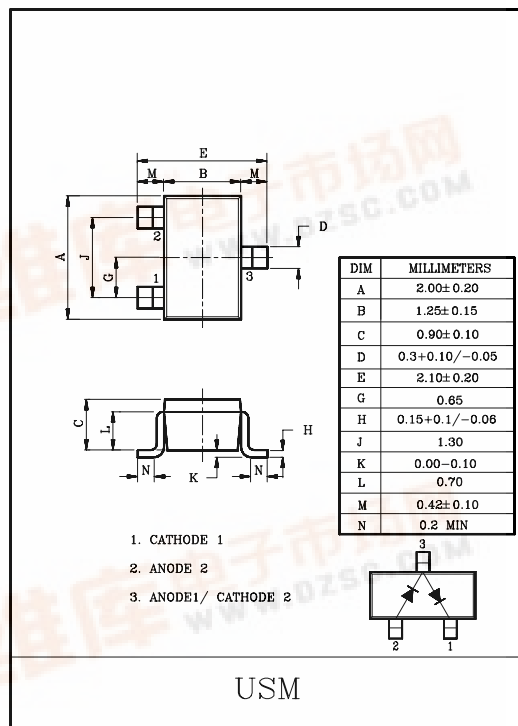
FEATURES

- Small Package : USM.
- Low Forward Voltage :  $V_F=0.9V(Typ.)$ .
- Fast Reverse Recovery Time :  $t_{rr}=1.6ns(Typ.)$ .
- Small Total Capacitance :  $C_T=0.9pF(Typ.)$ .

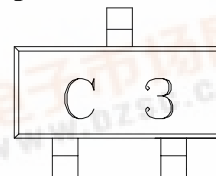
MAXIMUM RATINGS ( $T_a=25^{\circ}C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	$V_{RM}$	85	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	$^{\circ}C$
Storage Temperature Range	$T_{stg}$	-55~150	$^{\circ}C$

Note : \*Unit Rating. Total Rating=Unit Rating x 1.5



Marking



ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	$I_F=1mA$	-	0.60	-	V
	$V_{F(2)}$	$I_F=10mA$	-	0.72	-	
	$V_{F(3)}$	$I_F=100mA$	-	0.90	1.20	
Reverse Current	$I_R$	$V_R=80V$	-	-	0.5	$\mu A$
Total Capacitance	$C_T$	$V_R=0, f=1MHz$	-	0.9	3.0	pF
Reverse Recovery Time	$t_{rr}$	$I_F=10mA$	-	1.6	4.0	nS



# KDS122

