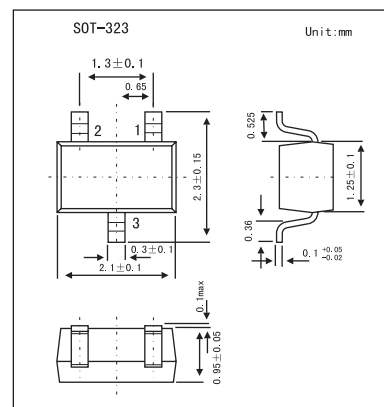
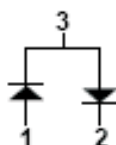


KMSD2004S(CMSD2004S)

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Continuous reverse voltage	V_R	240	V
Peak repetitive reverse voltage	V_{RRM}	300	V
Peak repetitive reverse current	I_O	200	mA
Continuous forward current	I_F	225	mA
Peak repetitive forward current	I_{FRM}	625	mA
Forward surge current $t_p=1\mu\text{s}$	I_{FSM}	4000	mA
$t_p=1\text{s}$		1000	mA
Power dissipation	P_D	250	mW
Thermal Resistance Junction-to-Ambient	R_{thJA}	500	$^\circ\text{C}/\text{W}$
Operating and storage Junction temperature	T_J, T_{stg}	-65 to 150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	300			V
Forward Voltage	V_F	$I_F=100\text{mA}$			-	V
Peak Reverse Current	I_R	$V_R=200\text{V}$			-	nA
		$V_R=200\text{V}, T_A=150^\circ\text{C}$			-	μA
		$V_R=240\text{V}$			100	nA
		$V_R=240\text{V}, T_A=150^\circ\text{C}$			100	μA
Junction Capacitance	C_j	$V_R=0, f=1.0\text{MHz}$			5	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=30\text{mA}, \text{Recov. to } 3.0\text{mA}, R_L=100\Omega$			50	ns

■ Marking

Marking	B6D
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