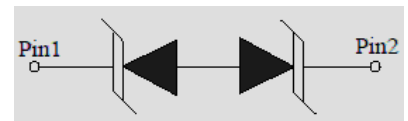




SOD-523



Pin Configuration

Protects one bi-directional I/O line  
Low clamping voltage  
Low operating voltage: 5.0V  
Low leakage current  
Ultra low capacitance: 0.3pF(typ.)  
RoHS compliant

USB ports  
Display port  
Wireless communications  
Digital visual interface (DVI)  
Cellular handsets & accessories

IEC61000-4-2 (ESD)  $\pm 20\text{kV}$ (air),  $\pm 20\text{kV}$ (contact)  
IEC61000-4-4 (EFT) 40A (5/50ns)  
IEC61000-4-5 (Lightning) 4.5A (8/20 $\mu\text{s}$ )

SOD-523 package  
Molding compound flammability rating: UL 94V



( $T_A=25$  , RH=45%-75%, unless otherwise noted)

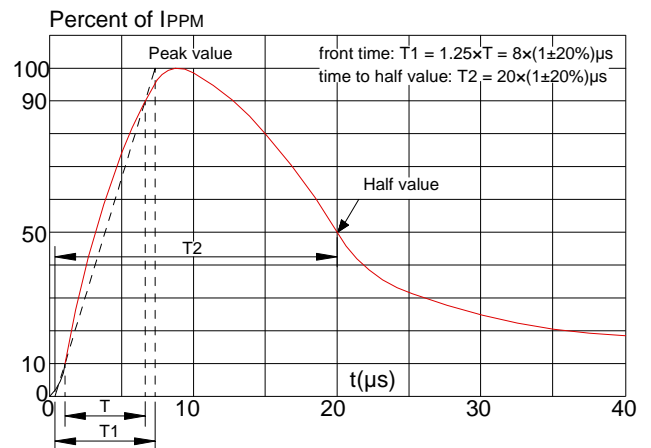
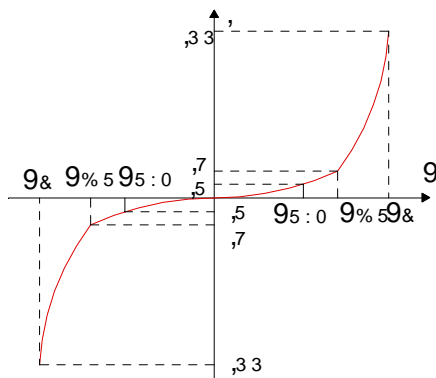
Peak pulse power dissipation at 8/20 $\mu$ s waveform	$P_{PP}$	100	W
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	$V_{ESD}$	+/- 20 +/- 20	kV
Lead soldering temperature	$T_L$	260 (10 sec.)	
Operating junction temperature range	$T_J$	-55 to +125	
Storage temperature range	$T_{STG}$	-55 to +150	

( $T_A=25$  )

Reverse working voltage	$V_{RWM}$		5.0	V	
Reverse breakdown voltage	$V_{BR}$	$I_T=1mA$	6.0	V	
Reverse leakage current	$I_R$	$V_{RWM}=5V$	1.0	$\mu A$	
Peak pulse current	$I_{PP}$	$t_P=8/20\mu s$	4.5	A	
Clamping voltage	$V_C$	$I_{PP}=1A, t_P=8/20\mu s$	10	12.5	V
		$I_{PP}=2.5A, t_P=8/20\mu s$	15	18	V
		$I_{PP}=4.5A, t_P=8/20\mu s$	25	30	V
Junction capacitance	$C_J$	$V_{RWM}=0V, f=1MHz$	0.3	0.5	pF

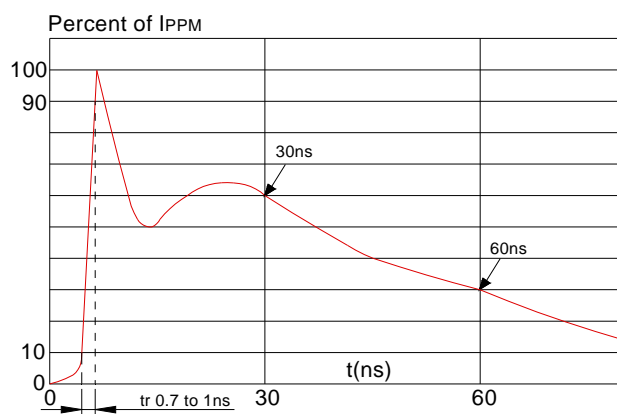
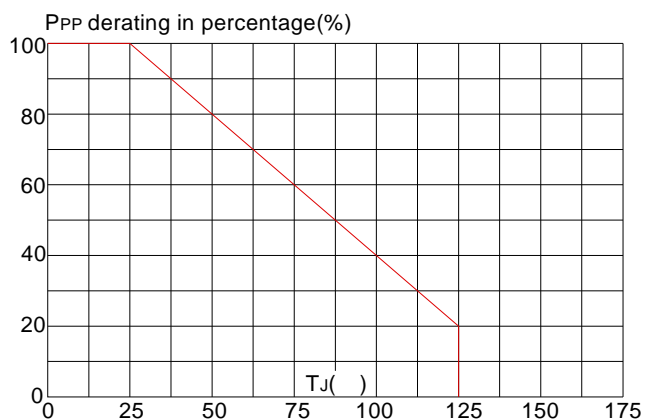
$\tau$  , unless otherwise noted)

(8/20 $\mu$ s)

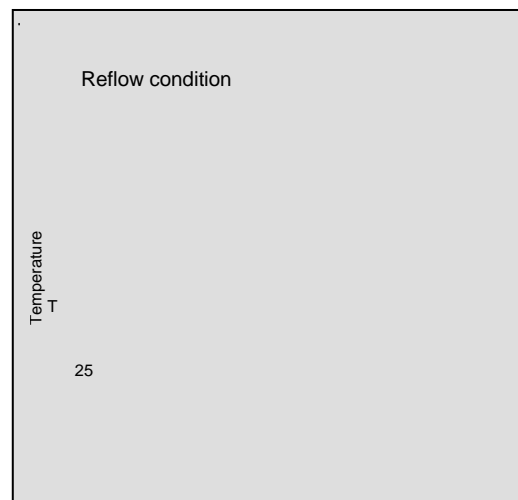


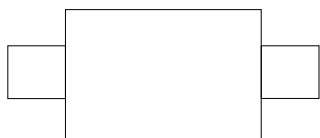


(20kV contact)




Reflow Condition		Pb-Free assembly (see figure at right)
Pre Heat	-Temperature Min (T <sub>s(min)</sub> )	+150
	-Temperature Max(T <sub>s(max)</sub> )	+200
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquidus Temp (T <sub>L</sub> )to peak)		3 /sec. Max
T <sub>s(max)</sub> to T <sub>L</sub> - Ramp-up Rate		3 /sec. Max
Reflow	-Temperature(T <sub>L</sub> )(Liquidus)	+217
	-Temperature(t <sub>L</sub> )	60-150 secs.
Peak Temp (T <sub>p</sub> )		+260(+0/-5)
Time within 5 of actual Peak Temp (t <sub>p</sub> )		20-40secs.
Ramp-down Rate		6 /sec. Max
Time 25 to Peak Temp (T <sub>p</sub> )		8 min. Max
Do not exceed		+260









Part Number	Marking Code
JEB05LCD5	

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