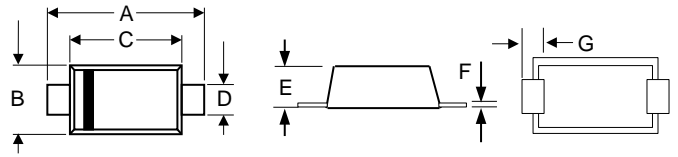


### Features

- \* Low reverse current
- \* Bi-directional low capacitance



RoHS  
COMPLIANT



SOD-523F				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.50	1.70
B	0.030	0.033	0.75	0.85
C	0.045	0.049	1.15	1.25
D	0.012	0.016	0.30	0.40
E	0.024	0.028	0.60	0.70
F	0.004	0.005	0.10	0.14

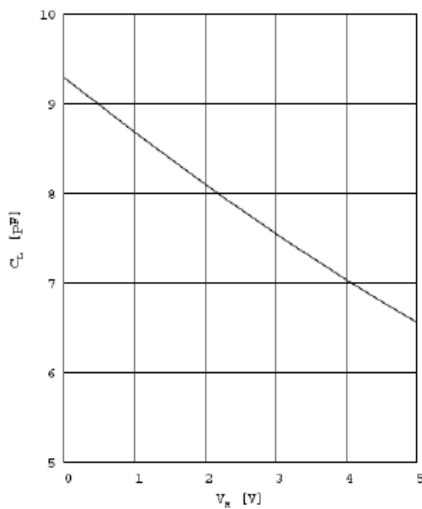
### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Working Voltage	V <sub>RWM</sub>	5	V
ESD contact discharge (IEC61000-4-2)      Contact	V <sub>ESD</sub>	± 25	KV
Peak Pulse Current (t <sub>p</sub> = 8/20 μs)	I <sub>PP</sub>	± 2.5	A
Operating Temperature Range	T <sub>j</sub>	- 55 to + 125	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 150	°C

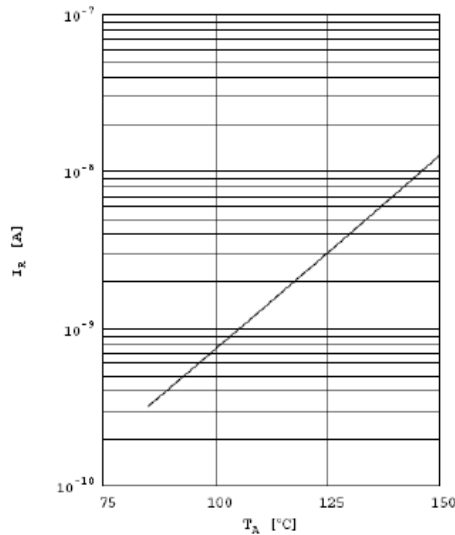
### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage at I <sub>R</sub> = 1 mA	V <sub>BR</sub>	7	-	-	V
Reverse Current at V <sub>R</sub> = 3 V	I <sub>R</sub>	-	-	50	nA
Clamping Voltage at I <sub>PP</sub> = 5 A, t <sub>p</sub> = 30 ns, pin 1 - 2 at I <sub>PP</sub> = 5 A, t <sub>p</sub> = 30 ns, pin 2 - 1 at I <sub>PP</sub> = 16 A, t <sub>p</sub> = 30 ns, pin 1 - 2 at I <sub>PP</sub> = 16 A, t <sub>p</sub> = 30 ns, pin 2 - 1	V <sub>C</sub>	-	17 20 22 25	-	V
Diode Capacitance at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>D</sub>	-	-	13	pF

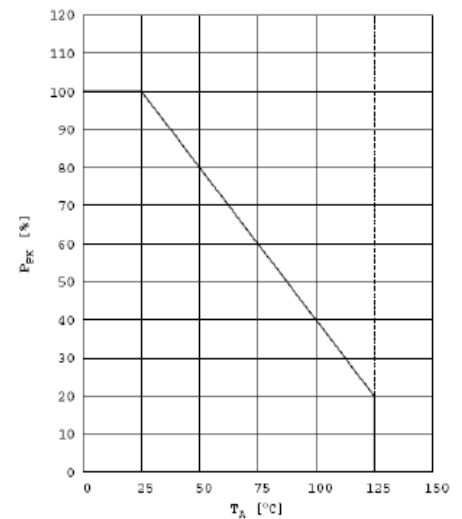
### Ratings and Characteristic Curves



Capacitance characteristics:  $C_L = f(V_R)$



Reverse characteristics:  $I_R = f(T_A)$



Power derating curve:  $P_{PK} = f(T_A)$

### Ordering Information

Part No.	Package	Packing Code	Packing
ESDBL5V0WT	SOD-523F	R30	3000pcs/Reel

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