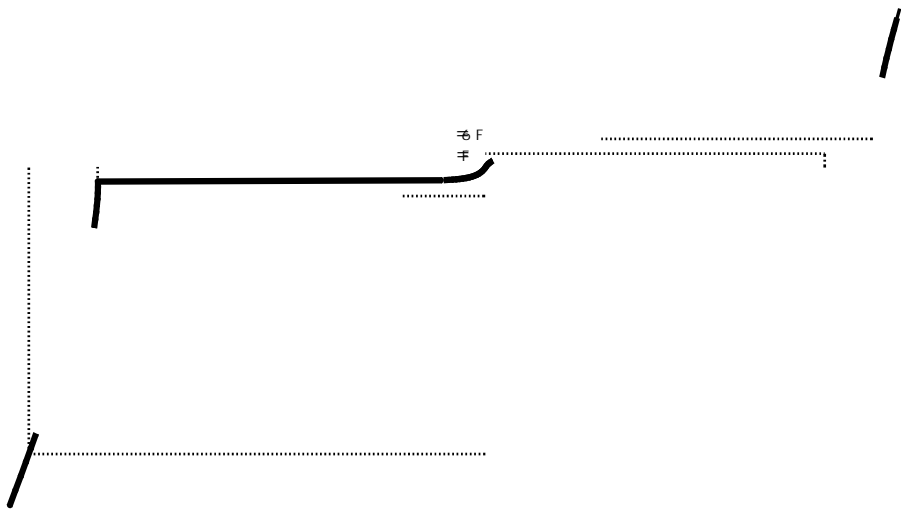


# D





# ESD0502EBQ

## Maximum Ratings

PARAMETER	SYMBOL	LIMITS	UNIT
Peak pulse power ( $t_p = 8/20\mu s$ )	$P_{pk}$	312	W
ESD according to IEC61000-4-2 air discharge	$V_{ESD}$	$\pm 30$	KV
ESD according to IEC61000-4-2 contact discharge		$\pm 30$	
Junction temperature	$T_J$	-55~150	
Storage temperature	$T_{STG}$	-55~150	

Notes:

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the component. This is a stress only rating and operation of the component at these or any other conditions above those indicated in the operational sections of this specification is not implied.

## Electrical Characteristics $T_J=25$

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Standoff Voltage	$V_{RWM}$	V	$I_R = 1\mu A$			5.0
Reverse breakdown voltage	$V_{BR}$	V	$I_{BR} = 1mA$	6.0		7.8
Reverse leakage current	$I_R$	$\mu A$	$V_{RWM} = 5V$			1.0
Clamping voltage <sup>1)</sup>	$V_{CL}$	V	$I_{PP} = 1A, t_p = 8/20\mu s$			10
		V	$I_{PP} = 10A, t_p = 8/20\mu s$			12
		V	$I_{PP} = 24A, t_p = 8/20\mu s$			13
Dynamic resistance <sup>2)</sup>	$R_{DYN}$		TLP, $t_p=100ns$ , I/O to Ground		0.11	
Peak Pulse Current	$I_{PP}$	A	$t_p = 8/20\mu s$			24
Junction capacitance	$C_J$	pF	$V_R = 0V, f = 1MHz$		50	100

Notes:

(1). Non-repetitive current pulse, according to IEC61000-4-5.

(2). TLP parameter:  $Z_0$



Characteristics (Typical)

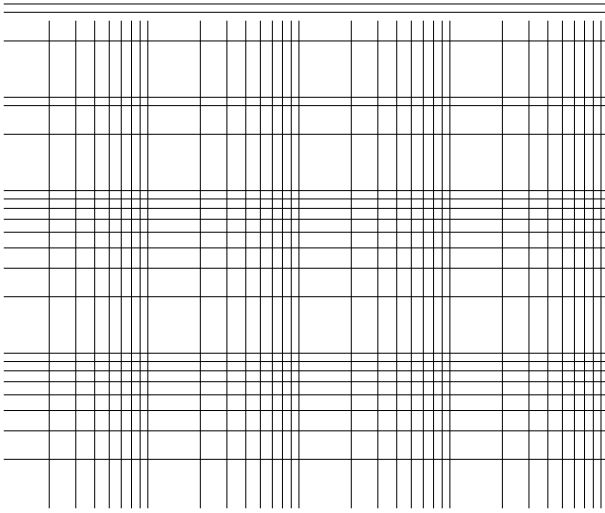
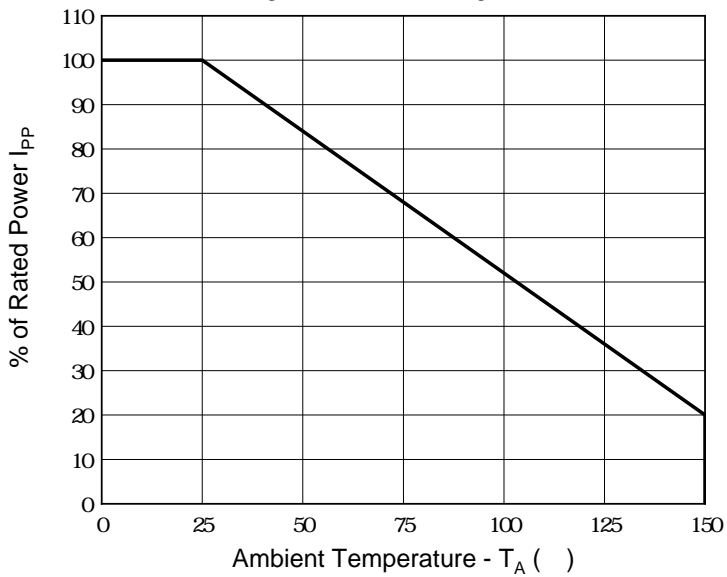


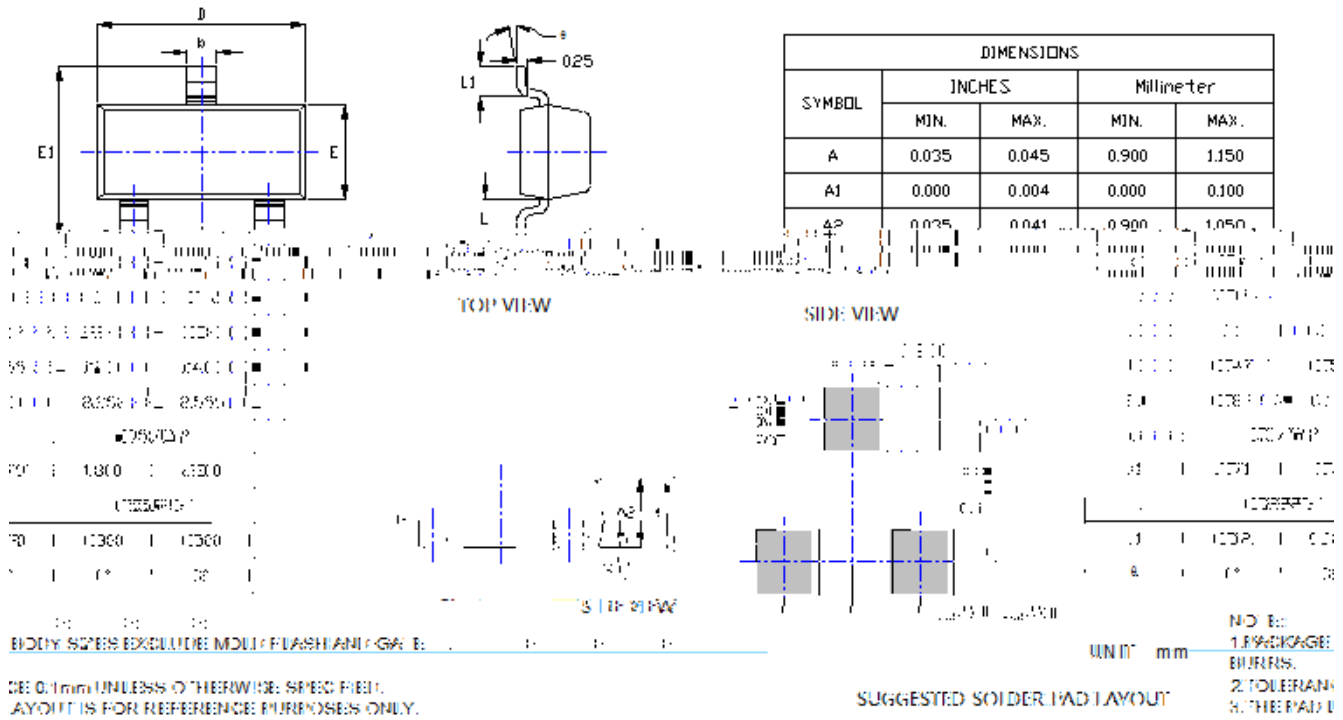
Fig.3: Power Derating Curve



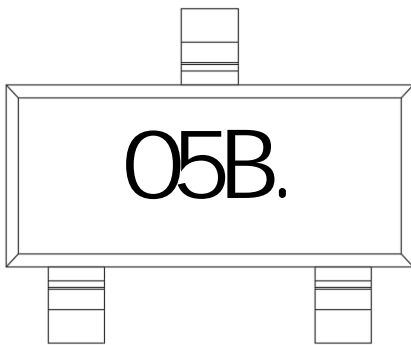


# ESD0502EBQ

## Outline Dimensions



## Marking Information



Note:  
 1. All marking is at middle of the product body  
 2. All marking is in laser marking  
 3. Body color: Black



## Disclaimer

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