



Epoxy meets UL-94 V-0 flammability rating and halogen free
Moisture Sensitivity Level 1
 V_R 100V
 I_{FAV} 200mA
Part no. with suffix "Q" means AEC-Q101 qualified

Extreme fast switches
Automotive

: SOT-23

: Tin plated leads, solderable per
J-STD-002 and JESD22-B102

2

A Cathode line denoteK

($T_a=25$ Unless otherwise specified)

Reverse Voltage	V_R	V		100
Average Forward Current	I_{FAV}	mA		200
Repetitive Peak Forward Current	I_{FRM}	mA		300
Peak Forward Surge Current	I_{FSM}	A	Pulse width=1 us Pulse width=1 s	2 1
Power Dissipation	P_{tot}	mW		350
Thermal Resistance Junction to Ambient	R_{thJA}	K/W		357
Junction Temperature	T_j			-55 to +150

Storage Temperature Range



$T_a=25$ Unless otherwise specified

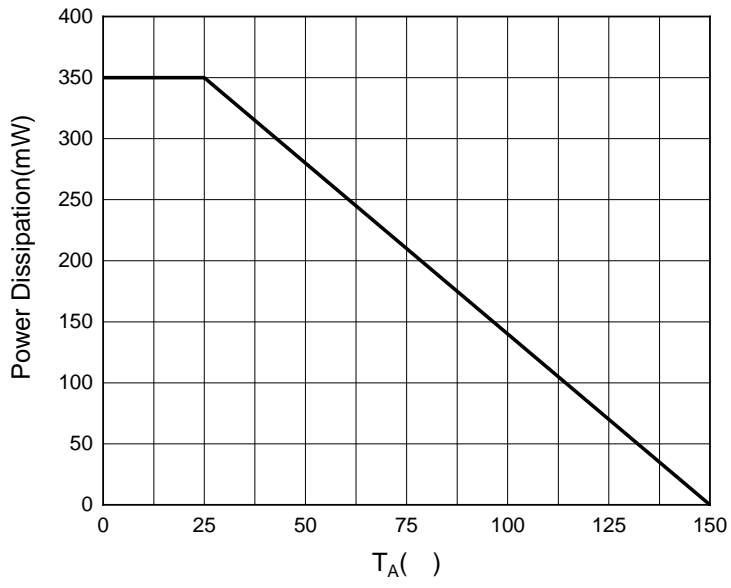
Forward Voltage	V_F	V	$I_F=1mA$		0.715
			$I_F=10mA$		0.855
			$I_F=50mA$		1.0
			$I_F=100mA$		1.2
Reverse Current	I_R	nA	$V_R=20V$		25
		μA	$V_R=75V$		5
Breakdown Voltage	V_R	V	$I_R=100\mu A$	100	
Junction Capacitance	C_j	pF	$V_R=V_F=0V, f=1MHz$		4
Reverse Recovery Time	t_{rr}	ns	$I_F=10mA, I_{rr}=1mA, V_R=6V, R_L=100$		4

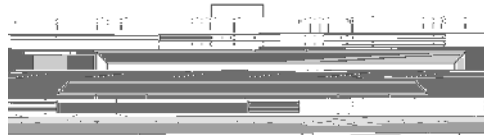
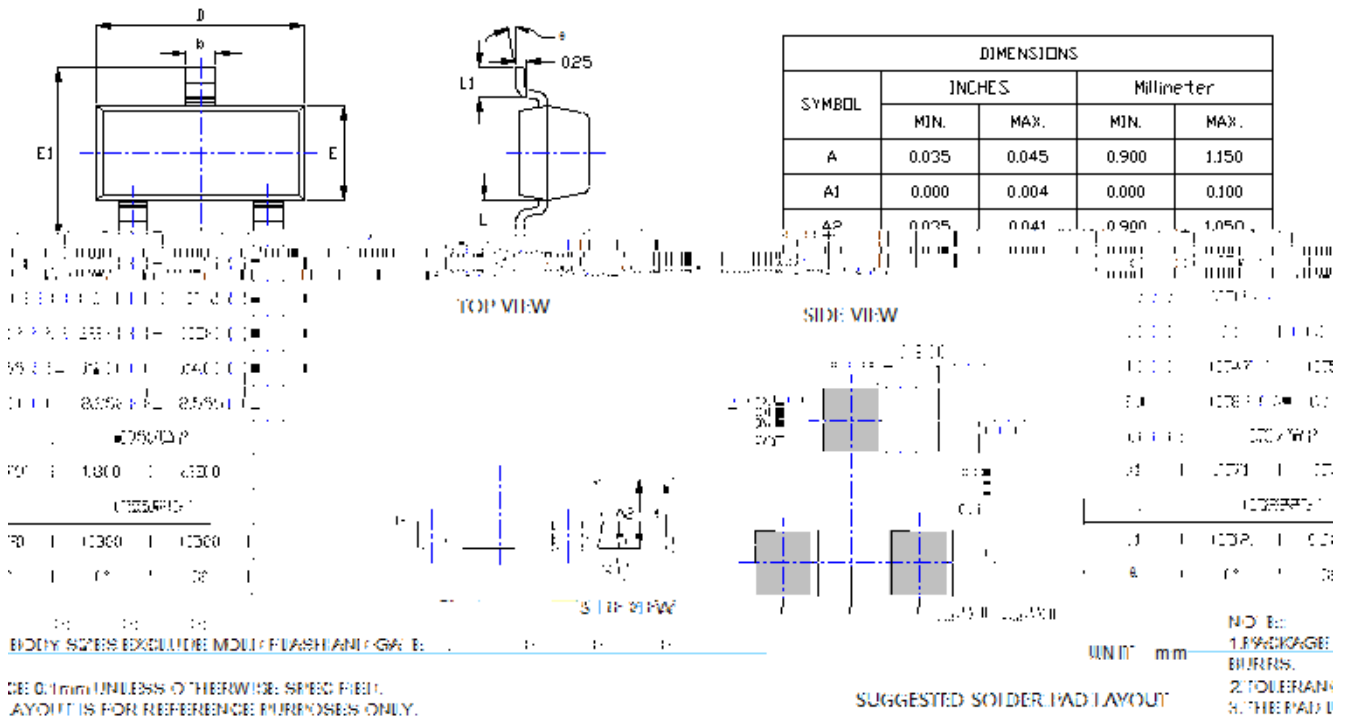
(Example)

MMBD4148Q	F2	Approximate 0.010	3000	30000	120000	7" reel



Fig.1: P_D-T_A





Note:

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



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