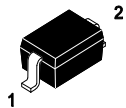


FEATURES

We declare that the material of product complies with RoHS requirements and Halogen Free.

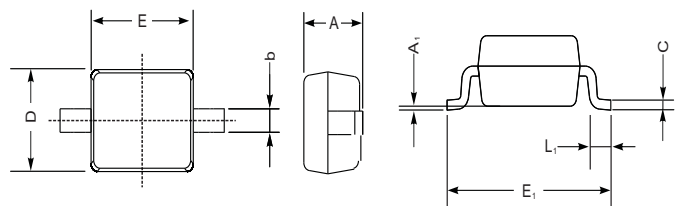
Marking: 5D



SOD323



SOD323



UNIT		A	C	D	E	E ₁	b	L ₁	A ₁
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—
mil	max	43	5.9	55	70	108	16	16	8
	min	32	3.1	47	63	100	9.8	7.9	—

MAXIMUM RATINGS(Ta = 25oC)

Parameter	Symbol	Limits	Unit
Reverse Voltage	VR	100	V
Forward Current	IF	200	mA
Non-Repetitive Peak forward surgery current @ t _p =1.0us	IFSM	2.0	A

MMDL914

ELECTRICAL CHARACTERISTICS (Ta= 25 °C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (IR = 100μA)	VBR	100	-	-	V
Reverse Voltage Leakage Current (VR = 20V)	IR	-	-	25	nA
(VR = 75V)		-	-	5	μA
Diode Capacitance (VR = 0, f = 1.0 MHz)	CT	-	-	4	pF
Forward Voltage (IF = 10 mA)	VF	-	-	1	V
(IF = 50 mA)		-	-	1	
Reverse Recovery Time (IF = IR = 10 mA)	trr	-	-	4	ns
Non-Repetitive Peak Forward Current (square wave; Tj=25 °C prior to surge t=1 μs)	IFSM	-	-	4	A
(t=1ms)		-	-	1	
(t=1s)		-	-	-	

THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-4 Board (Note 1) @ TA = 25°C	PD	200	mW
Derate above 25°C		1.57	mW/°C
Thermal Resistance, Junction-to-Ambient(Note 1)	RθJA	635	°C/W
Thermal Resistance, Junction-to-Case	RθJC	350	°C/W
Junction and Storage temperature	TJ,Tstg	-55~+150	°C

RATING AND CHARACTERISTIC CURVES (MMDL914)

