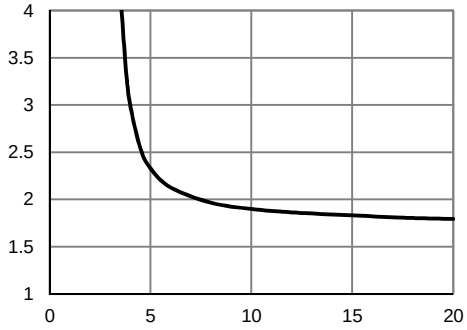
- Ultra-low $R_{DS(ON)}$
- Low Gate Charge
- 100% UIS Tested, 100% R_g Tested
- Pb-free Lead Plating
- Halogen-free and RoHS-compliant
- AEC-Q101 Qualified for Automotive Applications

V_{DS}	40	V
$V_{GS(th)}$	1.5	V
I_D (@ V_{GS} = 10V) (1)	211	A
$R_{DS(ON)}$ (@ V_{GS} = 10V)	1.9	m
$R_{DS(ON)}$ (@ V_{GS} = 4.5V)	2.6	m

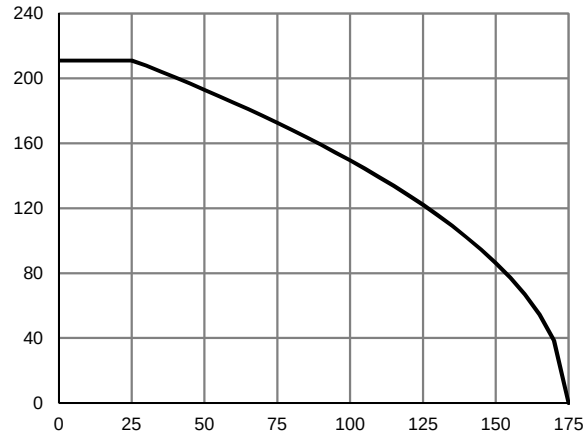
JMSL0402AKQ-13	TO-252-3L	3	SL0402AQ	1	-55 to 175	13-inch Reel	2500

(@ T_A = 25°C unless otherwise specified)

Drain-to-Source Voltage		V_{DS}	40	V
Gate-to-Source Voltage		V_{GS}	±20	V
Continuous Drain Current (1)	T_C = 25°C	I_D	211	A
	T_C = 100°C		148	
Pulsed Drain Current (2)		I_{DM}	517	A
Avalanche Energy (3)		E_{AS}	338	mJ
Power Dissipation (4)	T_C = 25°C	P_D	187	W
	T_C = 100°C		93	
Junction & Storage Temperature Range		T_J, T_{STG}	-55 to 175	°C



	$V_{(BR)DSS}$		40			V
		V_{DS} = 32V, V_{GS} = 0V			1.0	
		T_J = 55°C			5.0	
	I_{GSS}				±100	nA
Gate Threshold Voltage	$V_{GS(th)}$		1.2	1.5	2.5	V
				1.9	2.4	m
				2.6	3.4	m
	g_{FS}			87		S
	V_{SD}			0.66	1.0	V
	I_S				187	A
	C_{iss}			3252		pF
	C_{oss}			1888		pF
	C_{rss}			55		pF
	R_g			2.9		
	Q_g			50		nC
	Q_g			24		nC
	Q_{gs}			9.5		nC
	Q_{gd}			8.9		nC
	$t_{D(on)}$					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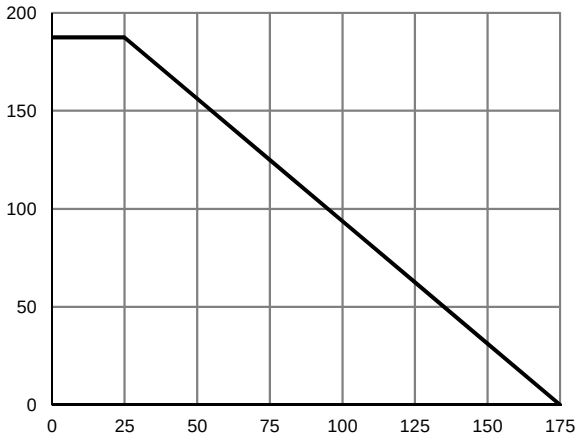
200
160
120
80
40
0
0
25
50
75
100
125
150
175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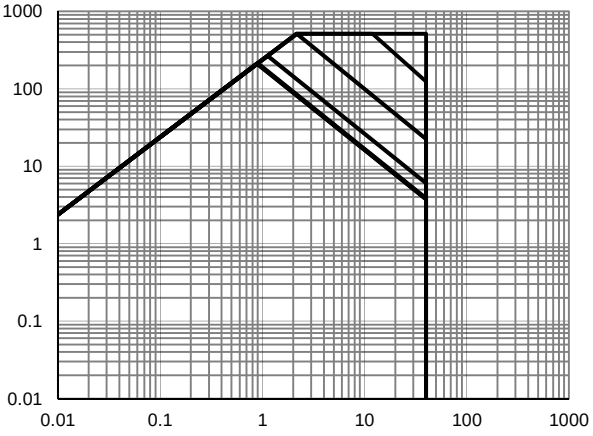
150
100
50
0
0
25
50
75
100
125
150
175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10
1
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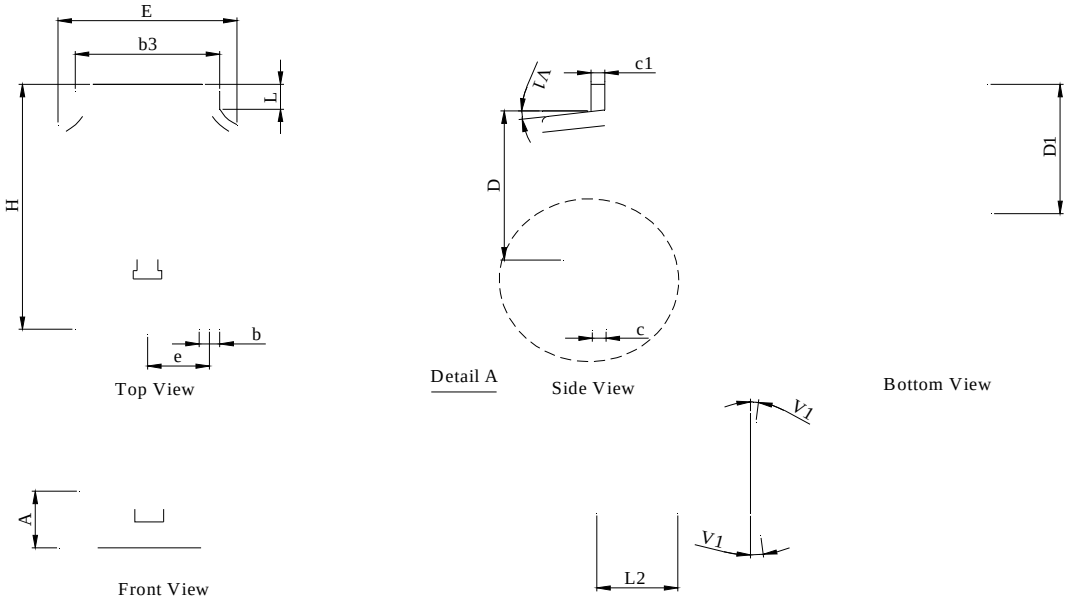
0.01
0.01
0.1
1
10
100
1000



DIM.	MILLIMETER		
	MIN.	NOM.	MAX.
A	2.18	2.30	2.39
A1	0	-	0.13
b	0.64	0.76	0.89
c	0.40	0.50	0.61
c1	0.46	0.50	0.58
D	5.97	6.10	6.23
D1	5.05	--	--
E	6.35	6.60	6.73
E1	4.32	--	--
b3	5.21	5.38	5.55
e	2.29 BSC		
H	9.40	10.00	10.40
L	0.89	--	1.27
L2	1.40		1.78
V1	7° REF		
V2	0°	-	6°