



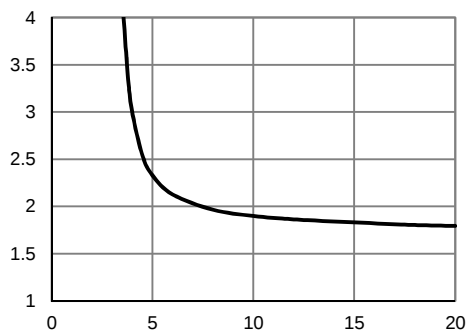
- Ultra-low $R_{DS(ON)}$
- Low Gate Charge
- 100% UIS Tested, 100% R_g Tested
- Pb-free Lead Plating
- Halogen-free and RoHS-compliant
- AEC-Q101 Qualified for Automotive Applications

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
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(@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

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





Gate Threshold Voltage	$V_{(BR)DSS}$	40			V
	$V_{DS} = 32V, V_{GS} = 0V$				1.0
	$T_J = 55^{\circ}C$				5.0
	I_{GSS}			± 100	nA
	$V_{GS(th)}$	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



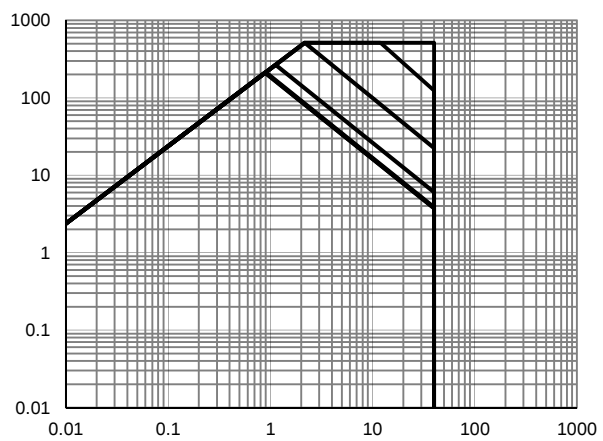
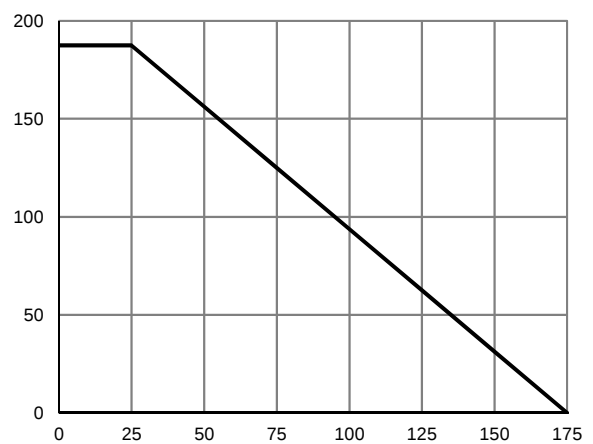
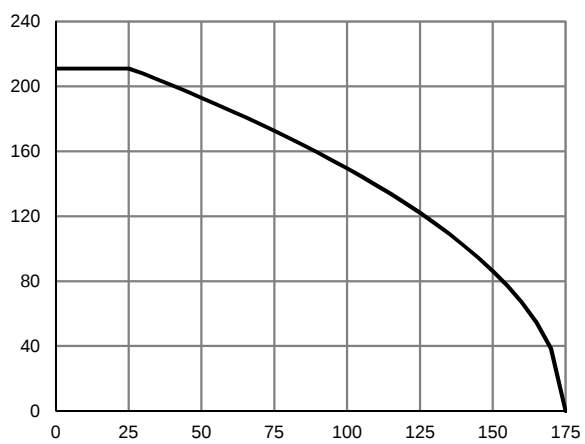
	C_{iss}		3252		pF
	C_{oss}		1888		pF
	C_{rss}		55		pF
	R_g		2.9		

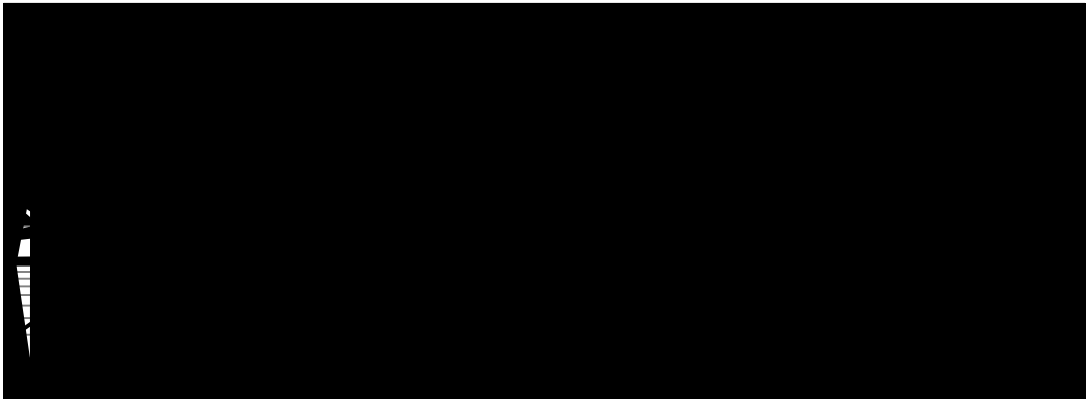


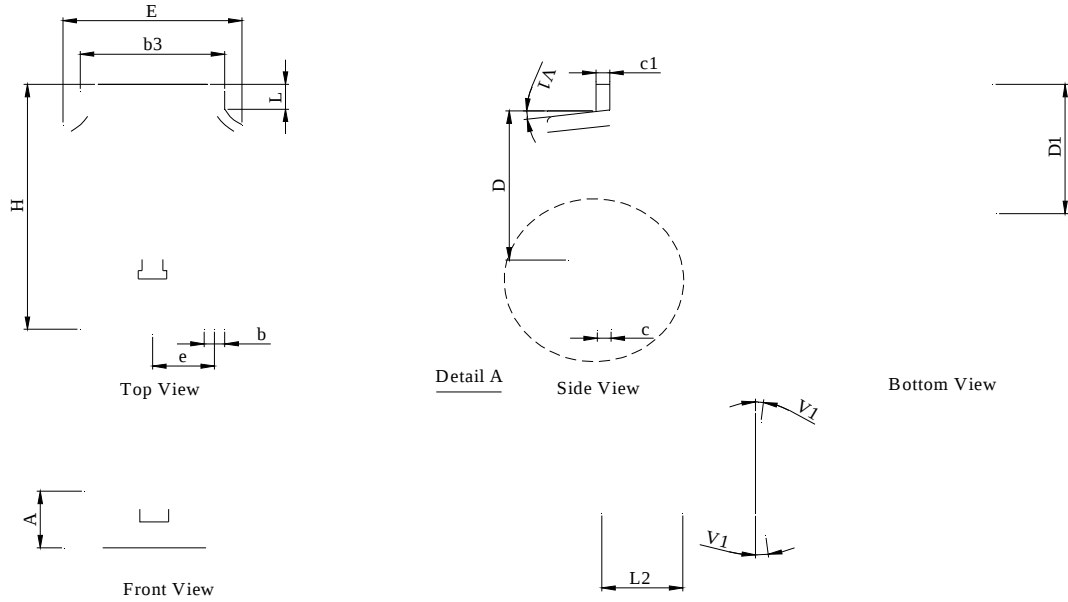
	Q_g		50		nC
	Q_g		24		nC
	Q_{gs}		9.5		nC
	Q_{gd}		8.9		nC
	$t_{D(on)}$				



[illegible]







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°