

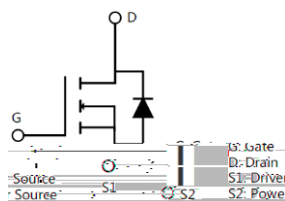
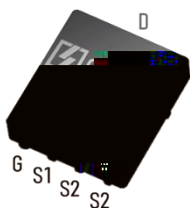
The GreenMOS[®] high voltage MOSFET utilizes charge balance technology to achieve outstanding low on-resistance and lower gate charge. It is engineered to minimize conduction loss, provide superior switching performance and robust avalanche capability.



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Parameter	Value	Unit
$V_{DS, min} @ T_{j(max)}$	650	V
$I_D, pulse$	90	A
$R_{DS(ON), max} @ V_{GS}=10V$	99	
Q_g	21.6	nC

Product Name	Package	Marking
OSS60R099JF	PDFN8*8	OSS60R099J



Absolute Maximum Ratings at $T_j=25$ unless otherwise noted

Parameter	Symbol	Value	Unit
Drain-source voltage	V_{DS}	600	V
Gate-source voltage	V_{GS}	± 30	V
Continuous drain current ¹⁾ , $T_C=25$ °C	I_D	30	A

Dynamic Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition
Input capacitance	C_{iss}				pF	$V_{GS}=0\text{ V}$, $V_{DS}=50\text{ V}$, 00 kHz
Output capacitance	C_{oss}		235.9		pF	
Reverse transfer capacitance	C_{rss}		9.1		pF	
Turn-on delay time	$t_{d(on)}$					

Electrical Characteristics Diagrams

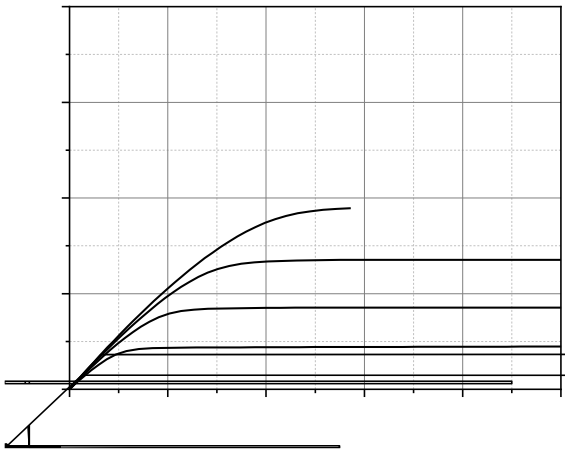


Figure 1. Typ. output characteristics



Figure 2. Typ. transfer characteristics

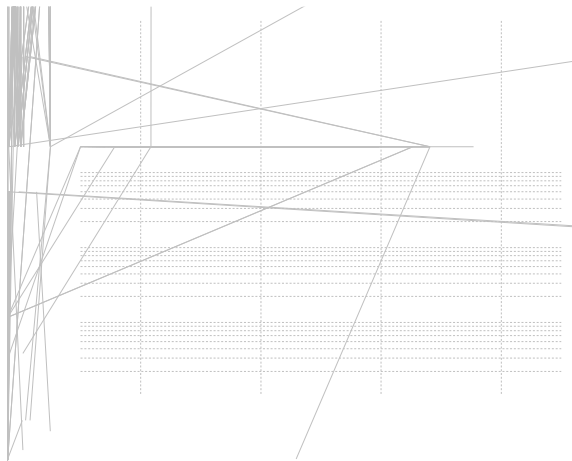


Figure 3. Typ. capacitances

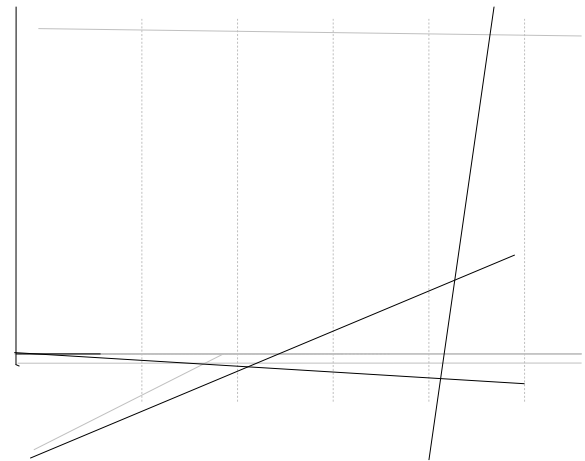


Figure 4. Typ. gate charge

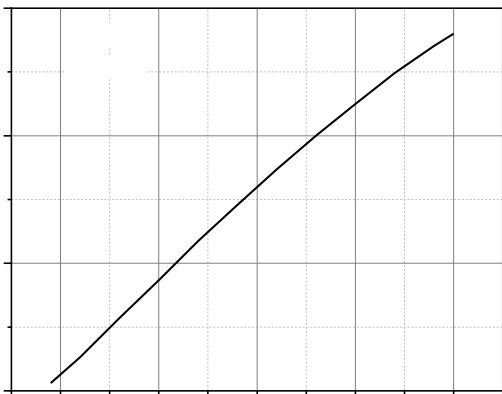


Figure 5. Drain-source breakdown voltage

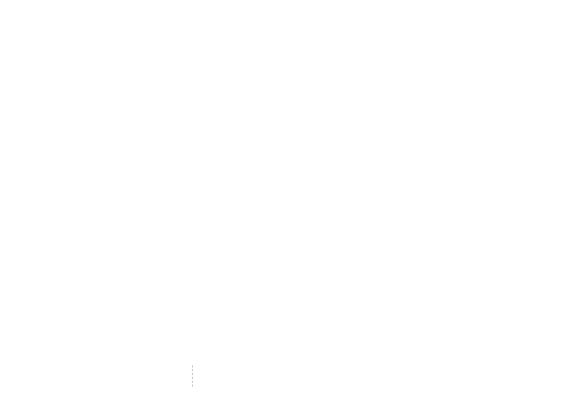


Figure 6. Drain-source on-state resistance

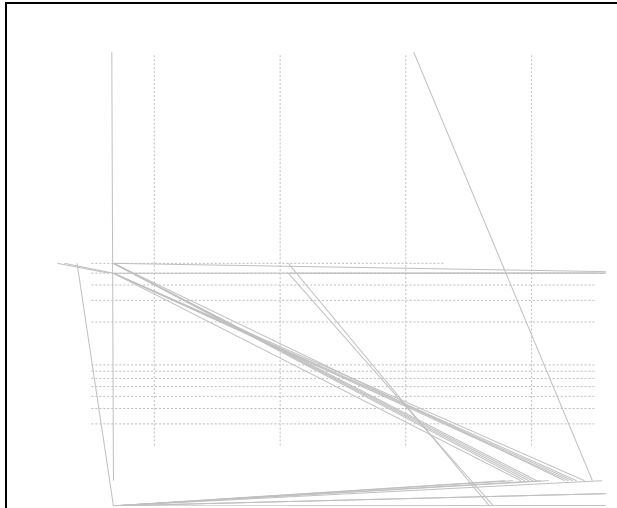


Figure 7. Forward characteristic of body diode

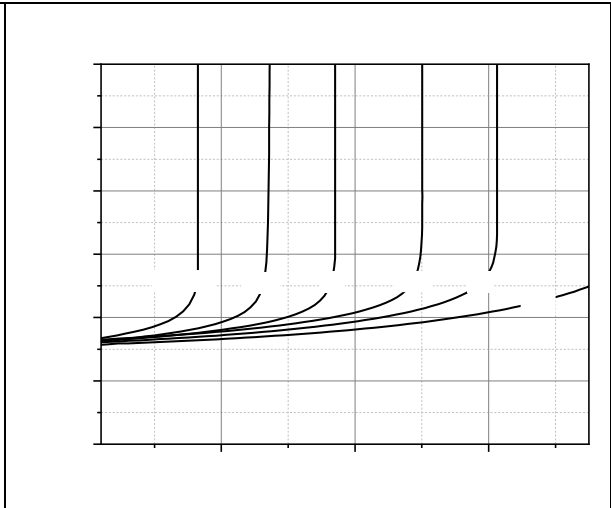


Figure 8. Drain-source on-state resistance

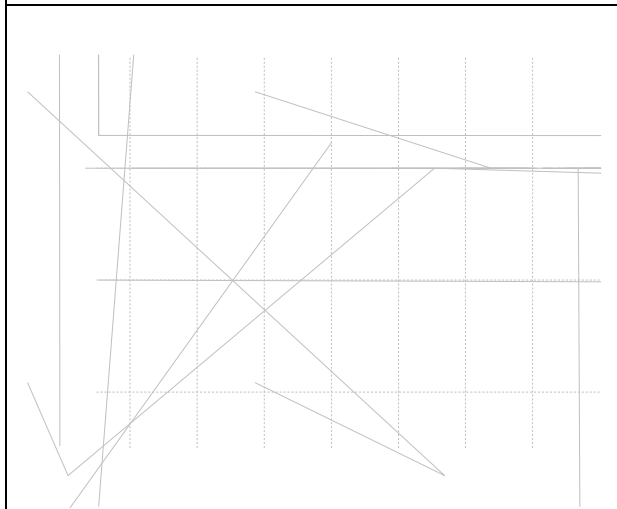


Figure 9. Drain current

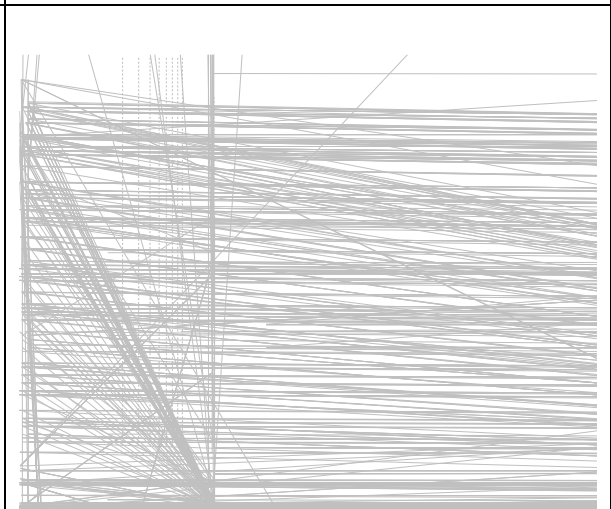
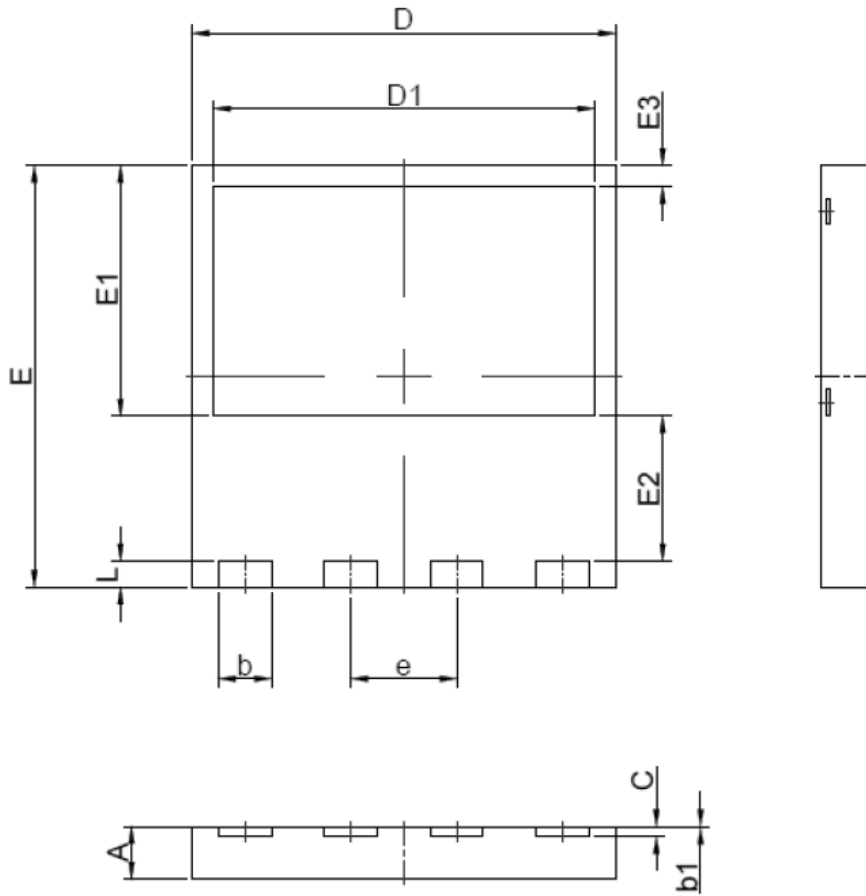


Figure 10. Safe operation area T_c=25 °C

Package Information



Symbol	mm		
	Min	Nom	Max
A	0.90	1.00	1.10
b	0.90	1.00	1.10
b1	0.00	0.02	0.05
C	0.2REF		
D	7.90	8.00	8.10
D1	7.10	7.20	7.30
E	7.90	8.00	8.10
E1	4.65	4.75	4.85
E2	2.65	2.75	2.85
E3	0.30	0.40	0.50
e	2.0BSC		
L	0.40	0.50	0.60

Version 1: PDFN8*8-L package outline dimension

Ordering Information

Package Type	Units/ Reel	Reels/ Inner Box	Units/ Inner Box	Inner Boxes/ Carton Box	Units/ Carton Box
PDFN8*8-L	2500	1	2500	10	25000

Product Information

Product	Package	Pb Free	RoHS	Halogen Free
OSS60R099JF	PDFN8*8	yes	yes	yes

