



It combines advanced SGT MOSFET technology with a low resistance package to provide extremely low $R_{DS(ON)}$.

$T_C=25$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current	$I_D @TC=25$	50	A
	$I_D @TC=75$	38	A
	$I_D @TC=100$	31	A
Pulsed Drain Current	I_{DM}	150	A
Total Power Dissipation	$P_D @TC=25$	35	W
Total Power Dissipation	$P_D @TA=25$	2.5	W
Operating Junction Temperature	T_J	-55 to 150	
Storage Temperature	T_{STG}	-55 to 150	
Single Pulse Avalanche Energy	E_{AS}	80	mJ

**Thermal resistance**

Parameter	Symbol	Min.	Typ.	Max.	Unit
Thermal resistance, junction - case	R_{thJC}	-	-	6.0	° C/W
Thermal resistance, junction - ambient	R_{thJA}	-	-	70	° C/W
Soldering temperature, wave soldering for 10s	T_{sold}	-	-	265	° C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS} = 0V, I_D = 250\mu A$	30			V
Gate Threshold Voltage	$V_{GS(TH)}$	$V_{GS} = V_{DS}, I_D = 250\mu A$	1.2	1.7	2.5	V
Drain-Source Leakage Current	I_{DSS}	$V_{DS} = 30V, V_{GS} = 0V$			1.0	μA
Gate- Source Leakage Current	I_{GSS}	$V_{GS} = \pm 20V, V_{DS} = 0V$			100	nA
Static Drain-source On Resistance		$V_{GS} = 10V, I_D = 20A$ $V_{GS} = 4.5V, I_D = 10A$				

Body Diode Reverse Recovery Time	trr			14	
Body Diode Reverse Recovery Charge	Qrr			25	

Note:

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Fig.1 Power Dissipation

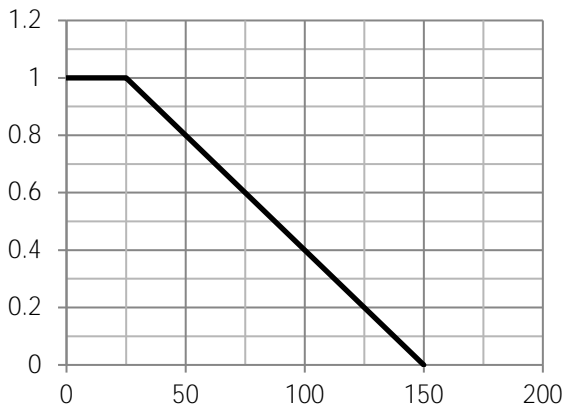


Fig.2 Typical output Characteristics

Fig.3 Threshold Voltage V.S Junction Temperature

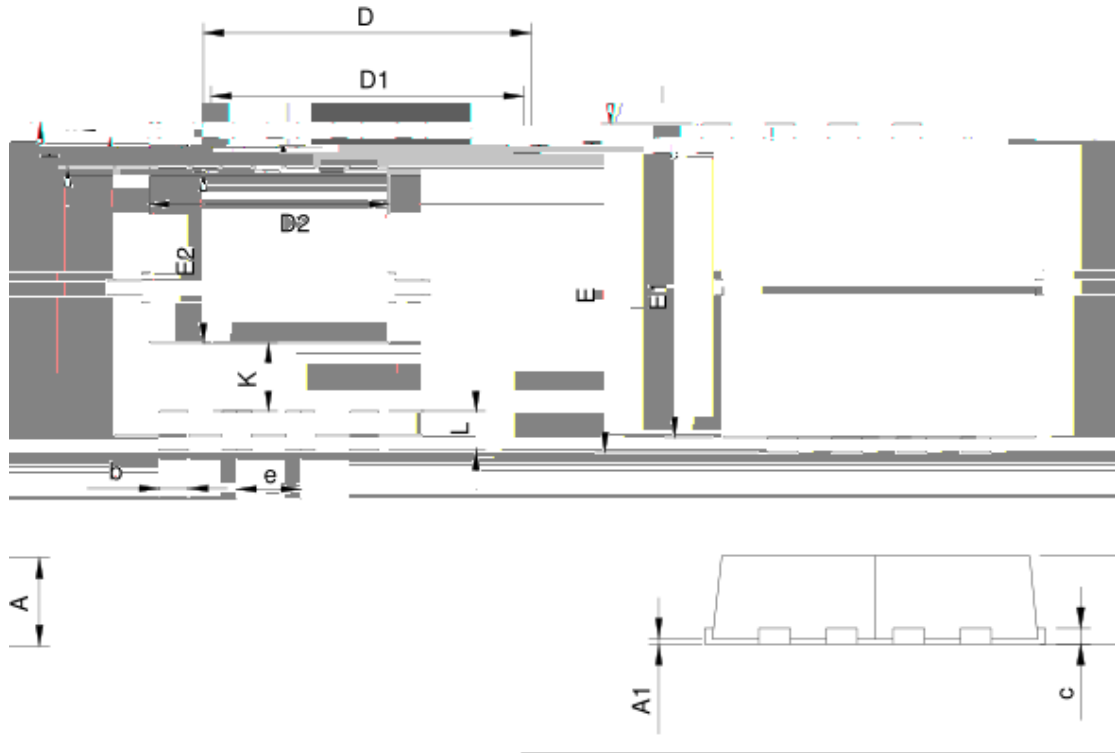
Fig.4 Resistance V.S Drain Current





sions(DFN3x3)

Unit mm



DFN3.3x3.3-8		RECOMMENDED LAND PATTERN			
		MILLIMETERS		INCHES	
		MIN.	MAX.	MIN.	MAX.
A	0.70	1.00	0.028	0.039	
A1	0.00	0.05	0.000	0.002	
b	0.25	0.35	0.010		
c	0.14	0.20	0.006		
D	3.10	3.50	0.122		
D1	3.05	3.25	0.120		
D2	2.35	2.55	0.093	0.100	
E	3.10	3.50	0.122	0.138	
E1	2.90	3.10	0.114	0.122	
E2	0.65	0.65	0.026	0.026	
e	0.65 BSC			0.026 BSC	
H	0.32	0.52	0.013	0.020	
K	0.59	0.79	0.023	0.031	
	0.25	0.35	0.010	0.022	