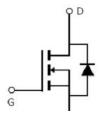


V _{DSS}	150V		
R _{DS} (on)	4.4m (typ.)		
I _D	150A		





Advanced MOSFET process technology
Special designed for PWM, load switching and
general purpose applications
Ultra low on-resistance with low gate charge
Fast switching and reverse body recovery
150 operating temperature



It utilizes the latest processing techniques to achieve the high cell density and reduces the on-resistance with high repetitive avalanche rating. These features combine to make this design an extremely efficient and reliable device for use in power switching application and a wide variety of other applications.

I _D @ T _C = 25°C	Continuous Drain Current, V _{GS} @ 10V	150	Α
I _{DM}	Pulsed Drain Current	600	A
P _D @T _C = 25°C	Power Dissipation	312	W
V _{DS}	Drain-Source Voltage	150	V
V _{GS}	Gate-to-Source Voltage	± 20	V
Eas	Single Pulse Avalanche Energy @ L=0.5mH	1108	mJ
T _J T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150	°C



R JC	Junction-to-case	_	0.4	/W

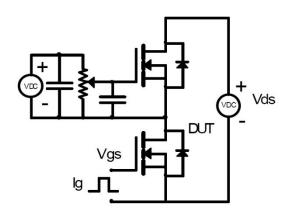
@T_A=25 unless otherwise specified

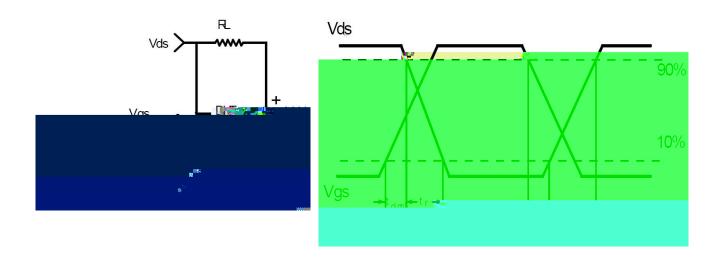
V _{(BR)DSS}	Drain-to-Source breakdown voltage	150	_	_	V	$V_{GS} = 0V, I_D = 250\mu A$
R _{DS(on)}	Static Drain-to-Source on-resistance	_	4.4	6	m	V _{GS} =10V,I _D =30A
V _{GS(th)}	Gate threshold voltage	2	_	4	V	$V_{DS} = V_{GS}, I_{D} = 250 \mu A$
I _{DSS}	Drain-to-Source leakage current	_	_	1	μΑ	V _{DS} =150V,V _{GS} = 0V
	_	_	100		V _{GS} =20V	
I _{GSS}	Gate-to-Source forward leakage	_	_	-100	nA	V _{GS} = -20V
Qg	Total gate charge	_	80	_		I _D = 20A,
Q _{gs}	Gate-to-Source charge	_	30	_	nC	V _{DS} =75V,
Q _{gd}	Gate-to-Drain("Miller") charge	_	15	_		V _{GS} = 10V
t _{d(on)}	Turn-on delay time	_	34	_		V _{GS} =10V,
t _r	Rise time	_	10	_		R _{GEN} =3
t _{d(off)}	Turn-Off delay time	_	38	_	ns	R _L =1.07
t _f	Fall time	_	4	_		V _{DS} =75V
C _{iss}	Input capacitance	_	6197	_		V _{GS} = 0V
Coss	Output capacitance	_	560	_	pF	V _{DS} = 100V
Crss	Reverse transfer capacitance	_	20	_		f = 1MHz

l ₋	Continuous Source Current			150	A	MOSFET symbol	
Is	(Body Diode)	_				showing the	
1	Pulsed Source Current		_	600	А	integral reverse	
Ism	(Body Diode)	_				p-n junction diode.	
V _{SD}	Diode Forward Voltage	_	_	1.2	V	I _S =30A, V _{GS} =0V	
trr	Reverse Recovery Time	_	120	_	ns	L 15A di/dt 100A/ug	
Qrr	Reverse Recovery Charge	_	250	_	nC	I _S =15A,di/dt=100A/us	







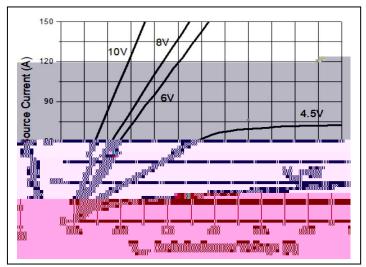


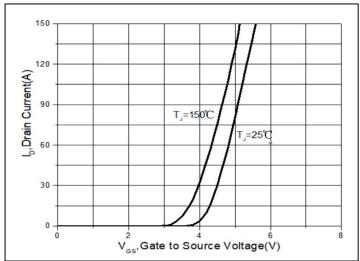
Calculated continuous current based on maximum allowable junction temperature.

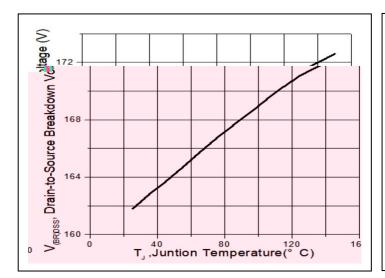
Repetitive rating; pulse width limited by max. junction temperature.

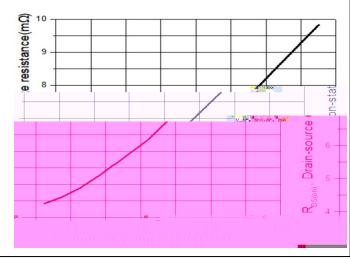
The power dissipation P_D is based on max. junction temperature, using junction-to-case thermal resistance.

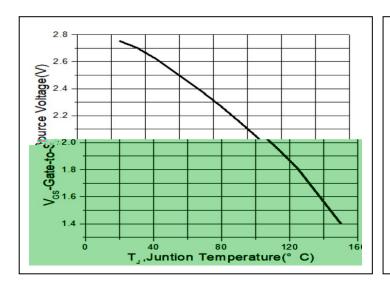


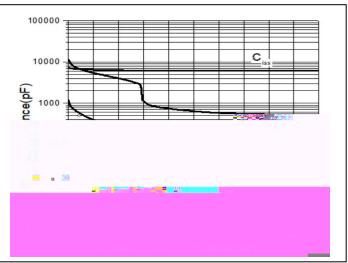




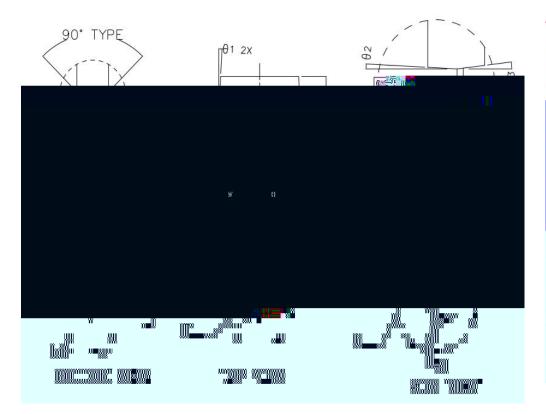












	COMMON DIMENSIONS (UNITS OF MEASURE IS mm)						
	MIN	NORMAL	MAX				
A1	0.020	0.100	0.200				
A2	4.470	4.570	4.670				
A3	2.30 LUN						
b1	0.750	0.800	0.850				
b2	1.220	1.270	1.320				
c1	0.450	0.500	0.550				
c2	1.250	1.300	1.350				
D	9.900	10.000	10.100				
▲ D1	9.780	9.880	9.980				
▲D2	7.900	8.000	8.100				
E	14.900	15.100	15.300				
▲E1	9.000	9,100	9.200				
▲E2	7.600	7.700	7.800				
е		2.540TYPE					
		2.010111					
L	2.100	2.300	2.500				
L L2	2.100 1.100		2.500 1.300				
L L2 L3		2.300					
L3	1.100	2.300 1.200	1.300				
_L3	1.100	2.300 1.200 1.500	1.300				
L3	1.100	2.300 1.200 1.500 2.50 TYPE	1.300				
L3 ▲L4	1.100	2.300 1.200 1.500 2.50 TYPE 3* TYPE	1.300				
L3 _• L4 θ1 θ2	1.100	2.300 1.200 1.500 2.50 TYPE 3* TYPE 3* TYPE	1.300				

Any and all Silikron products described or contained herein do not have specifications that can handle applications to require extremely high levels of reliability, such as life-support systems, aircraft's control system or of applications whose failure can be to the support systems and the support systems are supported by the support systems are support systems. The support systems are support systems, aircraft's control system or of applications whose failure can be to support systems are support systems, aircraft's control system or of applications.

中国的代析 assumes no responsibility 作為後代表 time and the factor of the facto

Specifications of any abd all Silipardn photodactstdescribed or domination of the specific products in the independent state, and are respectively. And the performance, despitial actoristics, and functions of the performance, despitial actoristics, and functions of the performance of the performance.