

Absolute maximum ratings

(Ta=25°C)

Symbol	Ratings	Unit
V _{DSS}	60	V
V _{GSS}	±20	V
I _D	±5	A
I _{D(pulse)}	±10(PW≤1ms)	A
E _{AS} *	2	mJ
P _T	5 (Ta=25°C, with all circuits operating, without heatsink) 35 (Tc=25°C, with all circuits operating, with infinite heatsink)	W
θ _{j-a}	25 (Junction-Air, Ta=25°C, with all circuits operating)	°C/W
θ _{j-c}	3.57 (Junction-Case, Tc=25°C, with all circuits operating)	°C/W
V _{iso}	1000 (Between fin and lead pin, AC)	Vrms
T _{ch}	150	°C
T _{tsg}	-40 to +150	°C

* : V_{DD}=20V, L=1mH, I_D=1.5A, unclamped, see Fig. E on page 15.

Electrical characteristics

(Ta=25°C)

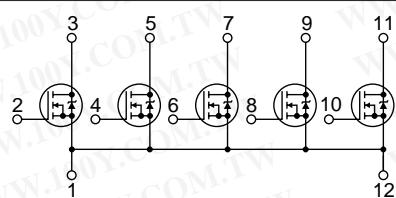
Symbol	Specification			Unit	Conditions
	min	typ	max		
V _{(BR)DSS}	60			V	I _D =250μA, V _{GS} =0V
I _{GSS}			±500	nA	V _{GS} =±20V
I _{DSS}			250	μA	V _{DS} =60V, V _{GS} =0V
V _{TH}	2.0		4.0	V	V _{DS} =10V, I _D =250μA
R _{e(yfs)}	2.2	3.3		S	V _{DS} =10V, I _D =5A
R _{DS(ON)}		0.17	0.22	Ω	V _{GS} =10V, I _D =5A
C _{iss}		300		pF	V _{DS} =25V, f=1.0MHz,
C _{oss}		160		pF	V _{GS} =0V
t _{on}		35		ns	I _D =5A, V _{DD} =30V, V _{GS} =10V,
t _{off}		35		ns	see Fig. 3 on page 16.
V _{SD}		1.1	1.5	V	I _{SD} =5A
t _{rr}		150		ns	I _{SD} =±100mA

勝特力材料 886-3-5753170

胜特力电子(上海) 86-21-34970699

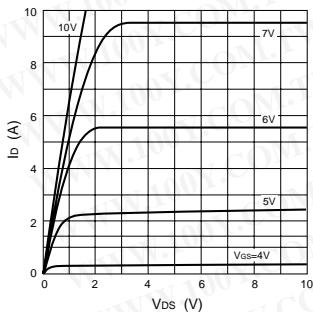
胜特力电子(深圳) 86-755-83298787

[Http://www.100y.com.tw](http://www.100y.com.tw)

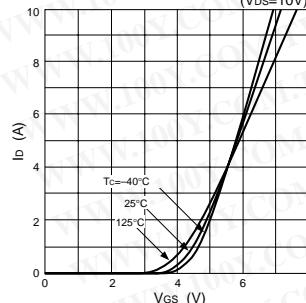


Characteristic curves

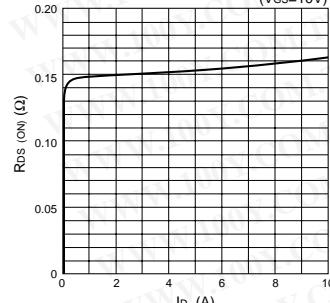
I_D-V_{DS} Characteristics (Typical)



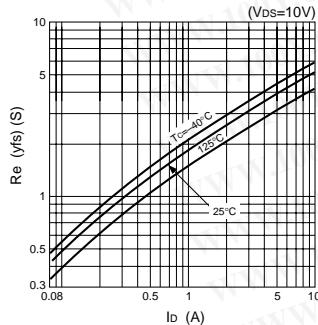
I_D-V_{GS} Characteristics (Typical)



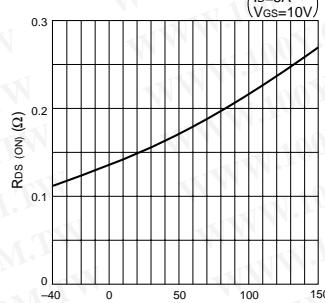
R_{DS(ON)}-I_D Characteristics (Typical)



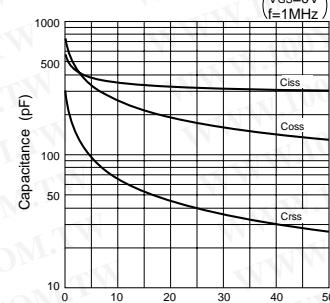
R_{e(yfs)}-I_D Characteristics (Typical)



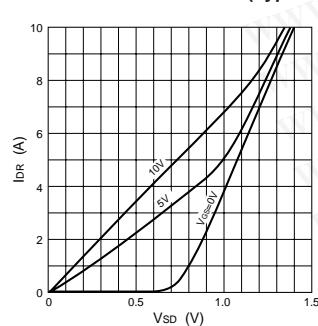
R_{DS(ON)}-T_c Characteristics (Typical)



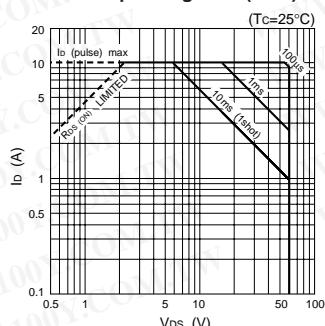
Capacitance-V_{DS} Characteristics (Typical)



I_{DR}-V_{SD} Characteristics (Typical)



Safe Operating Area (SOA)



P_T-T_a Characteristics

