HVX-2 Series Power MOSFET

N-Channel Enhancement type

2SK2663
(F1E90HVX2)

900V 1A

FEATURES

- Input capacitance (Ciss) is small. Especially, input capacitance at 0 biass is small.
- The static Rds(on) is small.
- The switching time is fast.
- Avalanche resistance guaranteed.

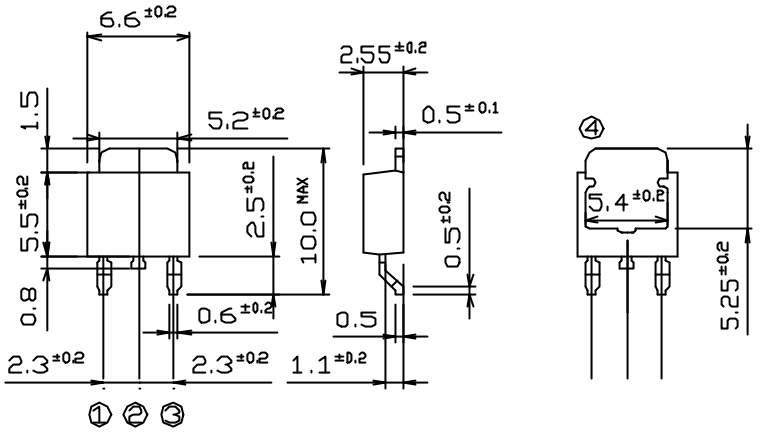
APPLICATION

- Switching power supply of AC 240V input
- High voltage power supply
- Inverter

OUTLINE DIMENSIONS

Case : E-pack

(Unit : mm)



① :G
② :D
③ :S
④ :D

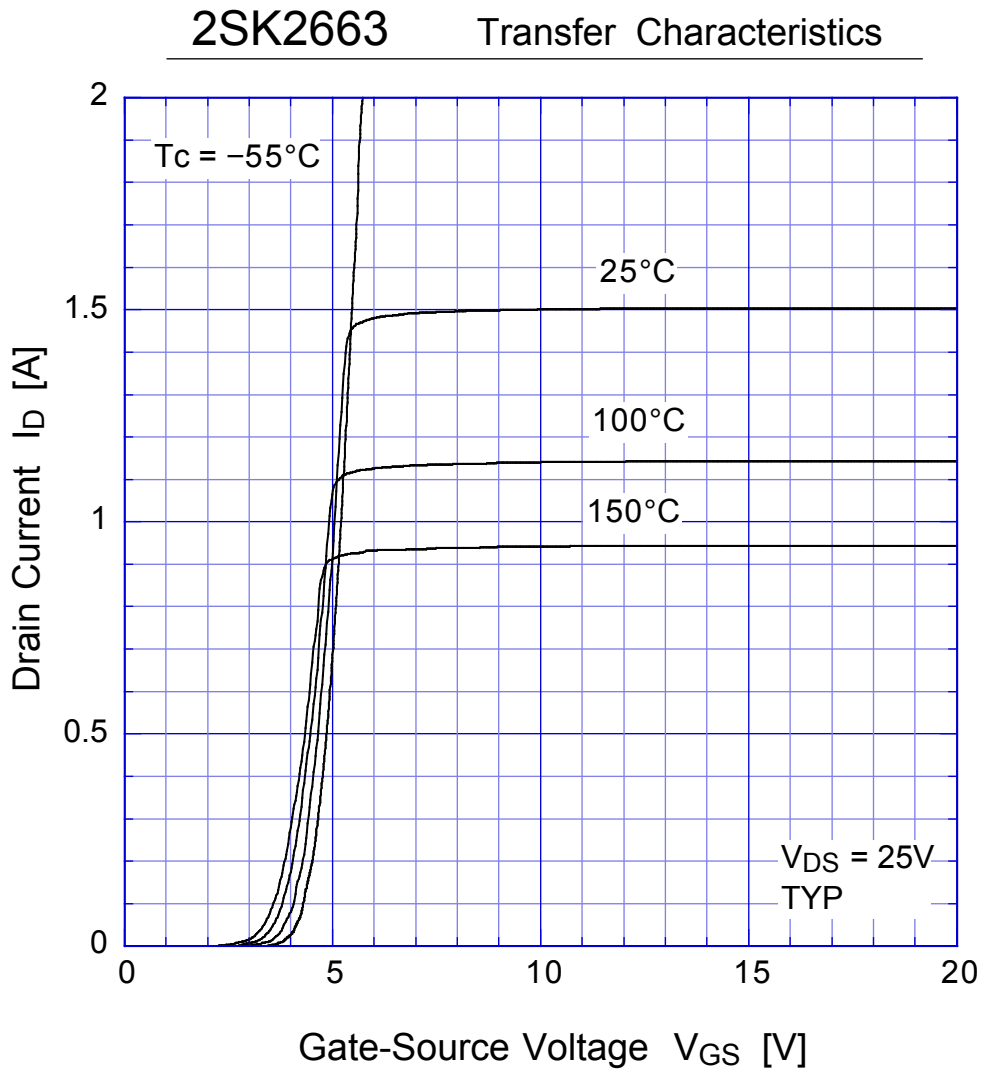
RATINGS

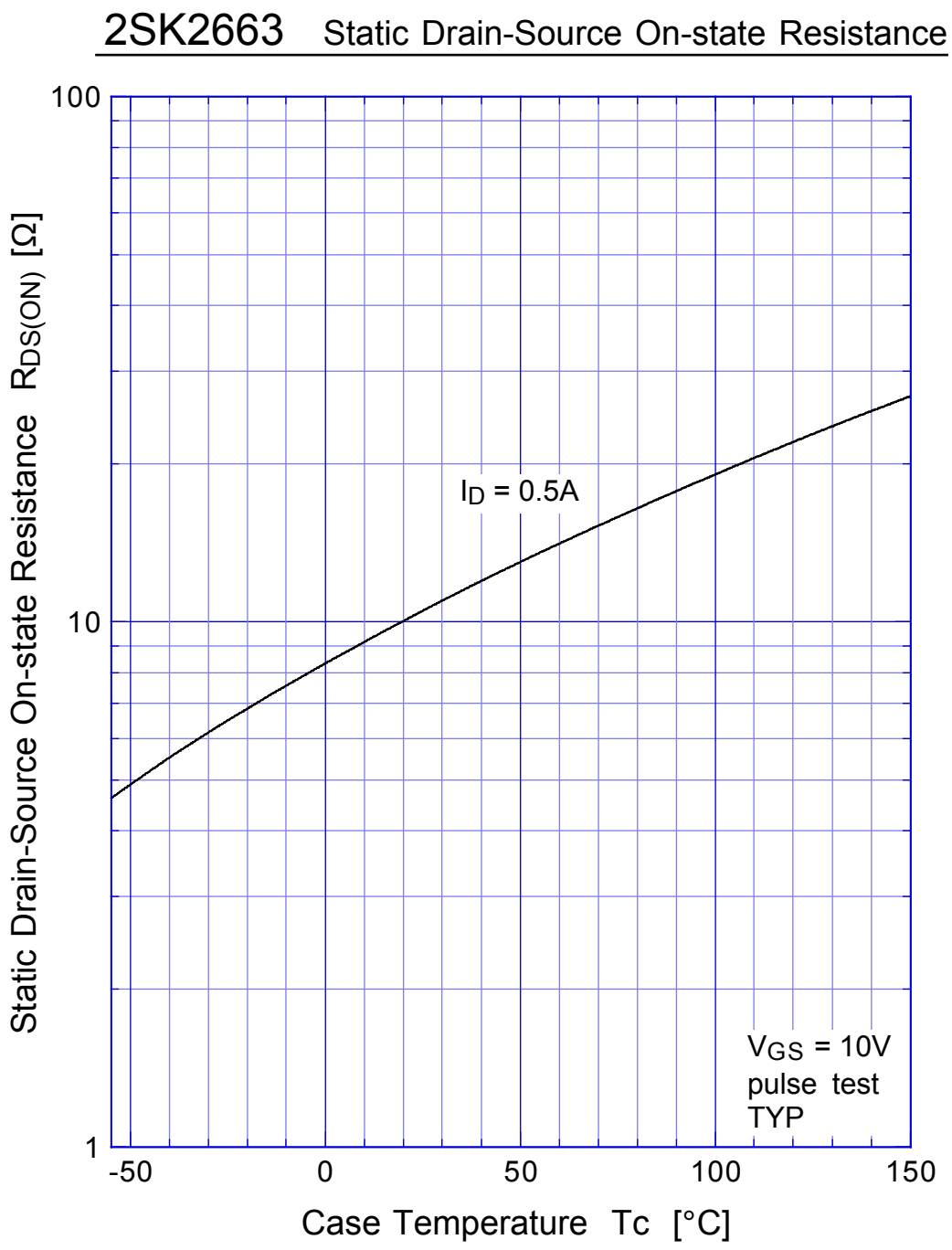
●Absolute Maximum Ratings (Tc = 25°C)

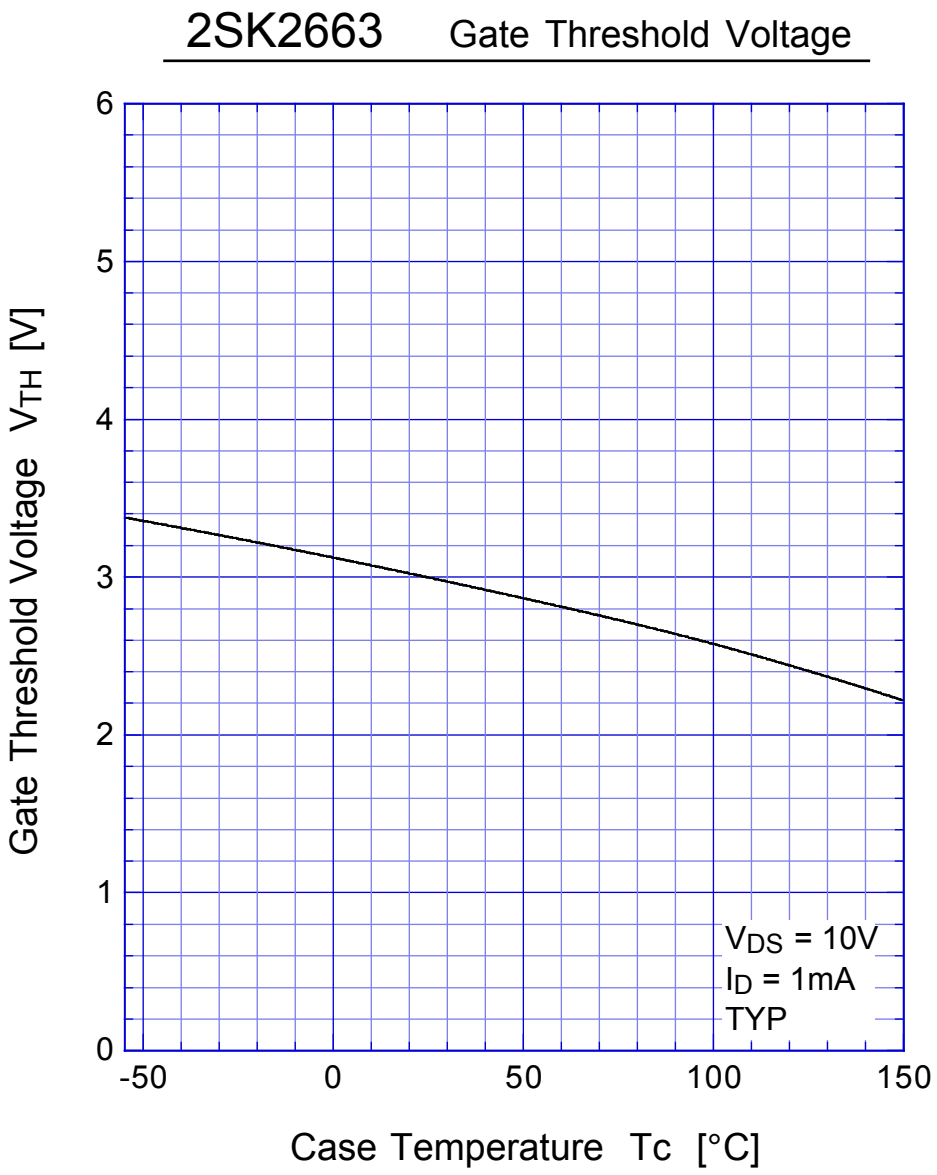
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55～150	°C
Channel Temperature	Tch		150	
Drain-Source Voltage	VDSS		900	V
Gate-Source Voltage	VGSS		±30	
Continuous Drain Current (DC)	ID		1	A
Continuous Drain Current (Peak)	IDP	Pulse width≦10μs, Duty cycle≦1/100	2	
Continuous Source Current (DC)	IS		1	
Total Power Dissipation	PT		10	W
Repetitive Avalanche Current	IAR	Tch = 150°C	1	A
Single Avalanche Energy	EAS	Tch = 25°C	10	mJ
Repetitive Avalanche Energy	EAR	Tch = 25°C	1	

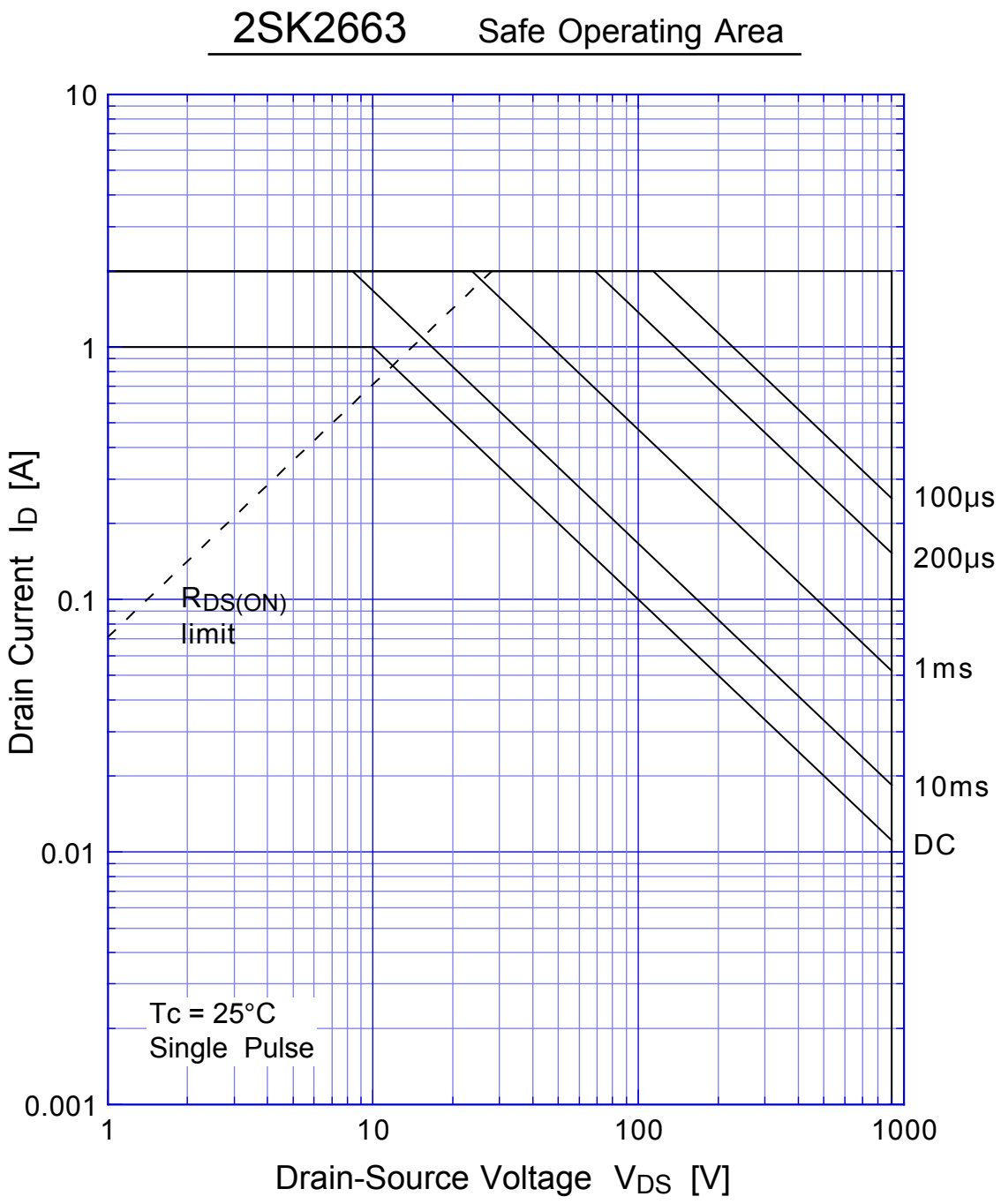
●Electrical Characteristics Tc = 25℃

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	I_D = 1mA, V_{GS} = 0V	900			V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS} = 900V, V_{GS} = 0V			250	μA
Gate-Source Leakage Current	I_{GSS}	V_{GS} = ±30V, V_{DS} = 0V			±0.1	
Forward Transconductance	g_{fs}	I_D = 0.5A, V_{DS} = 10V	0.6	1.0		S
Static Drain-Source On-state Resistance	$R_{DS(ON)}$	I_D = 0.5A, V_{GS} = 10V		10.5	14	Ω
Gate Threshold Voltage	V_{TH}	I_D = 0.2mA, V_{DS} = 10V	2.5	3.0	3.5	V
Source-Drain Diode Forward Voltage	V_{SD}	I_S = 0.5A, V_{GS} = 0V			1.5	
Thermal Resistance	θ jc	junction to case			12.5	℃/W
Total Gate Charge	Q_g	V_{DD} = 400V, V_{GS} = 10V, I_D = 1A		10.5		nC
Input Capacitance	C_{iss}	V_{DS} = 25V, V_{GS} = 0V, f = 1MHz		230		pF
Reverse Transfer Capacitance	C_{rss}			5		
Output Capacitance	C_{oss}			23		
Turn-On Time	t_{on}	I_D = 0.5A, V_{DD} = 150V, R_L = 300Ω		10	18	ns
Turn-Off Time	t_{off}			50	85	









查询"2SK2663"供应商