2SK 1266

Silicon N-channel Power F-MOS FET

Features

- Low ON resistance R_{DS} (on) : R_{DS} (on) $1\!=\!0.08\Omega$ (typ.)
- High switching rate : $t_f = 180ns$ (typ.)
- No secondary breakdown
- For low voltage driving ($V_{GS} = 4V$)

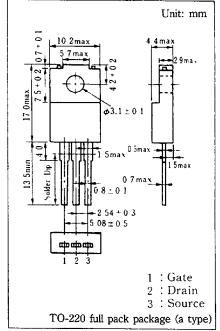
Application

- DC-DC converter
- No contact relay
- Solenoid drive
- Motor drive

Item Drain-source voltage Gate-source voltage		Symbol	Value	Unit V V	
		V _{DSS} V _{GSS}	$\begin{array}{c} 150 \\ \pm 20 \end{array}$		
					Drain current
Peak-to-peak value	I _{DP}	40			
Power dissipation	Tc=25℃	n	45	W	
	Ta=25°C	P_D	2.0		
Channel temperature		T _{ch}	150	°C	
Storage temperature		T _{stg}	$-55 \sim +150$	°C	

■ Absolute Maximum Ratings (Tc=25°C)

Package Dimensions

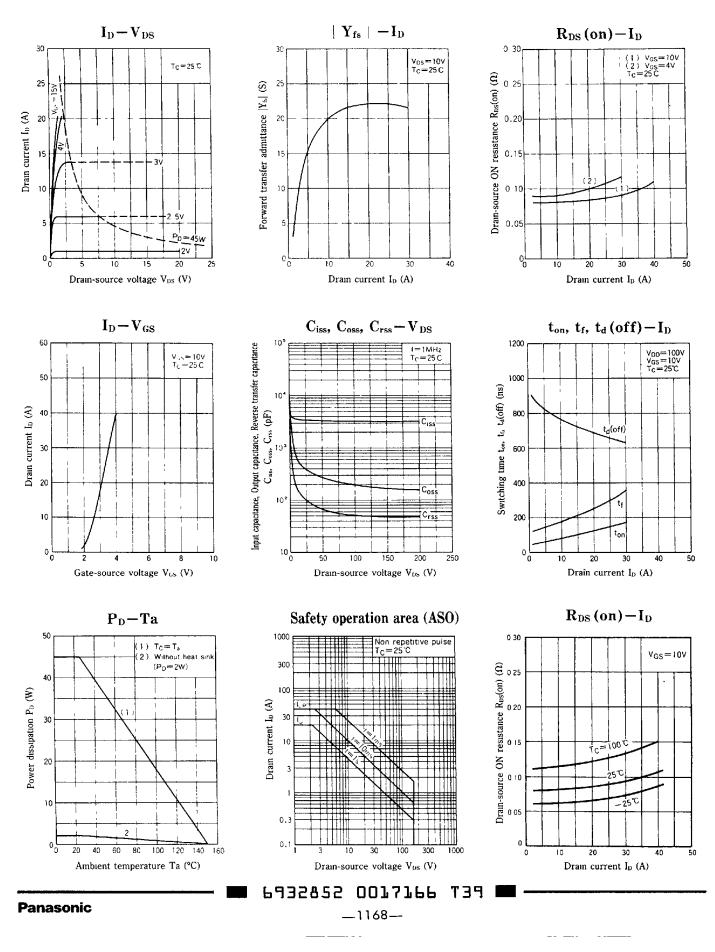


Electrical Characteristics (Tc=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
Drain current	I _{DSS}	$V_{DS} = 130 V, V_{GS} = 0$			10	μA
Gate-source current	I _{GSS}	$V_{GS} = \pm 20 V, V_{DS} = 0$			±1	μA
Drain-source voltage	V _{DSS}	$I_{\rm D} = 1 {\rm mA}, {\rm V}_{\rm GS} = 0$	150			V
Gate threshold voltage	V _{th}	$V_{\rm DS} = 10V, I_{\rm D} = 1mA$	1		2.5	V
Drain-source ON resistance	$R_{DS}(on)1$.	$V_{GS} = 10V, I_D = 10A$		0.08	0.12	Ω
Drain-source ON resistance	R _{D5} (on)2	$V_{GS} = 4V, I_D = 10A$		0.09	0.135	Ω
Forward transfer admittance	Yfs I	$V_{DS} = 10V, I_D = 10A$	10	20		S
Input capacitance	Ciss	$V_{DS} = 10V, V_{GS} = 0. f = 1MHz$		3450		pF
Output capacitance	Coss			600		pF
Reverse transfer capacitance	Crss			150		pF
Turn-on time	t _{on}	$V_{GS} = 10V, I_D = 10A$ $V_{DD} = 100V, R_L = 10\Omega$		90		ns
Fall time	t _f			180		ns
Delay time	t _d (off)			770		ns

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