8. INDUSTRIAL APPLICATIONS FETS

(1) CHOPPER SWITCHING APPLICATIONS

| | ⊘ JUNCTI | > JUNCTION FET ≪ | | | | • | | | | | | | | | | | | 725 |
|------------------------|-----------------|---------------------|------------------|----------|--|-----------|--------------|-----------------|----------------|--------------------|--|-----------|-----------------------|---|---|-------------|-------------------|-------|
| : | Tvee No. | | | | | | * SSQI | \ * | | | | | | | | | | 50 |
| Application | | | VGDS | ပ | <u>. </u> | <u> </u> | | N _{DS} | <u>پ</u> | , i | | lain Elec | trical Ch | Main Electrical Characteristics | | <i>`</i> | PACKAGE | TC |
| | N-Channel | P-Channel | <u> </u> | (mA) | <u>")</u> (мш) | (၁) | (mA) | 2 | | : | | | | | | | | SH |
| General Purpose | 2SK11 | | -20 | 10 | 100 | 150 | 0.3~6.5 | 10 | | lYfsl=(| IYfsl=0.73.2mS | Ş | @V _{DS} =1 | @V _{DS} =10V, V _{DS} =0, f=1KHz | f=1KHz | | TO-17 | ΙĐ |
| Low Noise | 2SK12 | | -20 | 10 | 100 | 150 | 0.45~5.0 | 10 | | Yfs ≕(| IYfsl=0.8 –3.2mS | Š | @V _{DS} =1 | @V _{DS} =10V, V _{GS} =0, f=1KHz | , f=1KHz | | T0-17 | Α |
| Low Noise | 2SK15 | | -20 | .e | 100 | 150 | 0.45~5.0 | ₽ | | NF=3d | 3MAX. € | VDS=1 | 0V, I _D =0 | 45mA, Rg= | NF-3dBMAX. @V _{DS} =10V, I _D =0.45mA, Rg=10kΩ, f=1KHz | | TO-17 | ([|
| High IYfsl Low Noise | 2SK112 | | -20 | 0 | 250 1 | 150 | 1.2~9.0 | 15 | | NF=2d | BMAX. | ⊕VDS=1 | 5V, l _D =1 | NF=2dBMAX. @V _{DS} =15V, I _D =1mA, Rg=1KΩ, f=1KHz | Ω, ≔1KHz | | TO-18 | IS |
| Controlled Resistor | 2SK113-R | | 22 | 5 | 250 1 | 150 (N | (Note) 5~30 | 20 | | R _{ON} =1 | R _{ON} =100ΩMAX. @V _{GS} =0, l _D =1mA | ₹. @VG | 3=0, lD=' | ImA | | | TO-18 | CF |
| Swiching, Chopper | 2SK113-0 | | -20 | 5 | 250 | 150 (N | (Note) 25~75 | 5 20 | _ | R _{ON} =6 | RON=600MAX. @VGS=0, ID=1mA | @VGS | ±0, lp=1r | μΑ | | | TO-18 | ₹E] |
| Analog Switch, Chopper | 2SK113-Y | | 22 | 5 | 150 | 150 (N | (Note)50~150 | 20 | | RON=; | RON=30\max. @VGS=0, ID=1mA | . @VGS | =0, l _D =1 | Ψ | | | TO-18 | E |
| | ≫ MOS FET ≪ | > | | | | | | | | ٠ | | | | | | | |) |
| | | | | - | | | | | | | | | | | | ₽CG | | |
| Application | 5 | Type No. | V _{DSS} | <u> </u> | ^ S225 | VG2SS | ٥ | G G | T _o | RON NO | VG1S \ | VG2S | N _{DS} | CG1D | CG1S | [CA1D-CG1S] | PACKAGE | |
| | N-CHANNEL | N-CHANNEL P-CHANNEL | (X) | | (2 | (2) | (mA) | (mM) | (၁ | (ಬ) | 2 | Ξ | (mV) | (PF) | (PS) | (PF) | - 1 | |
| Switching choppen | 3SK 38A | | 20 | ±12 | 12 | -20 | 10 | 200 | 125 | 500 MAX. | က | 0 | 10 | 2.5 MAX | 2.5 MAX | 0.3 MAX. | (2-8E1A) | |
| | | | | | | | | | | | | | | | | | 67C (read; Cn) | 67C |
| | | H)= | | | | | | | | | | | _ | | | - | | 09144 |
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