



































































| MAXIMUM RATINGS | | 4351 | | |
|---|---|------|------------|--------------|
| | 2N4351 CASE 20-03, STYLE 2 TO-72 (TO-206AF) 3 Dmm | | | |
| Transient potentials of # 75 Voli will not cause gate-existe failure. | Source Voltage Vis 23 Vis a Convoltage Vis 30 Vis Convert To 30 Vis Discust Devices Tr 20 Vis Super Trenders Range Tr 17 Cr Sup Trenders Range Tr 45 MOSPET Super Trenders Range Tr 45 MOSPET | | | |
| ELECTRICAL CHARACTERISTICS (T _A = 25°C unless otherwise noted.) Characteristic | Symbol | Min | Max | Unit |
| OFF CHARACTERISTICS Drain-Source Breakdown Voltage | Villeobsx | 25 | - | Vdc |
| (I _D = 10 µA, V _{GS} = 0) Zero-Gate-Voltage Drain Current | I _{DSS} | ~ | 10 | nAdc |
| $(V_{DS} = 10 \text{ V}, Y_{CS} = 0) T_A = 25^\circ \text{C}$ $T_A = 150^\circ \text{C}$ Gate Reverse Current | IGSS | - | 10 ± 10 | µAdc pAdc |
| (V _{CS} = ± 15 Vdc, V _{DS} = 0) ON CHARACTERISTICS | | _ | | _ |
| Gate Threshold Voltage $(V_{DS} = 10 \text{ V}, I_D = 10 \mu \text{A})$ | V _{GS(Th)} | 1.0 | 5 | Vdc |
| Drain-Source On-Voltage (I _D = 2.0 mA, V _{GS} = 10V) | V _{DS(m)} | - | 1.0 | v |
| On-State Drain Current (V _{GS} = 10 V, V _{GS} = 10 V) | I _{D(26)} | 3.0 | 142 | mAde |
| SMALL-SIGNAL CHARACTERISTICS | | | | |
| Forward Transfer Admittance $(V_{DS}=10~V, I_D=2.0~mA,~f=1.0~kHz) \label{eq:VDS}$ | y _{fs} | 1000 | - | µmbo |
| Input Capacitance (V _{DB} = 10 V, V _{GS} = 0, f = 140 kHz) | Cim | - | 5.0 | pF |
| Reverse Transfer Capacitance (V _{DS} = 0, V _{OS} = 0, f = 140 kHz) | Cns | - | 1.3 | bli |
| Drain-Substrate Capacitance (V _{DSR06} = 10 V, f = 140 kHz) | C _{d(mb)} | 1 | 5.0 | pF |
| Dmin-Source Resistance (V _{GS} = 10 V, I _D = 0, f = 1.0 kHz) | fdeim) | 1 | 300 | ohms |
| SWITCHING CHARACTERISTICS | | | | |
| Turn-On Delay (Fig. 5) | Lei | - | 45 | 13 |
| | L, | - | 65 60 | f 18 |
| Rise Time (Fig. 6) $I_D = 2.0 \text{ mAdc}$, $V_{DS} = 10 \text{ Vdc}$, ($V_{CS} = 10 \text{ Vdc}$) ($V_{CS} = 10 \text{ Vdc}$) | | | | ns |









