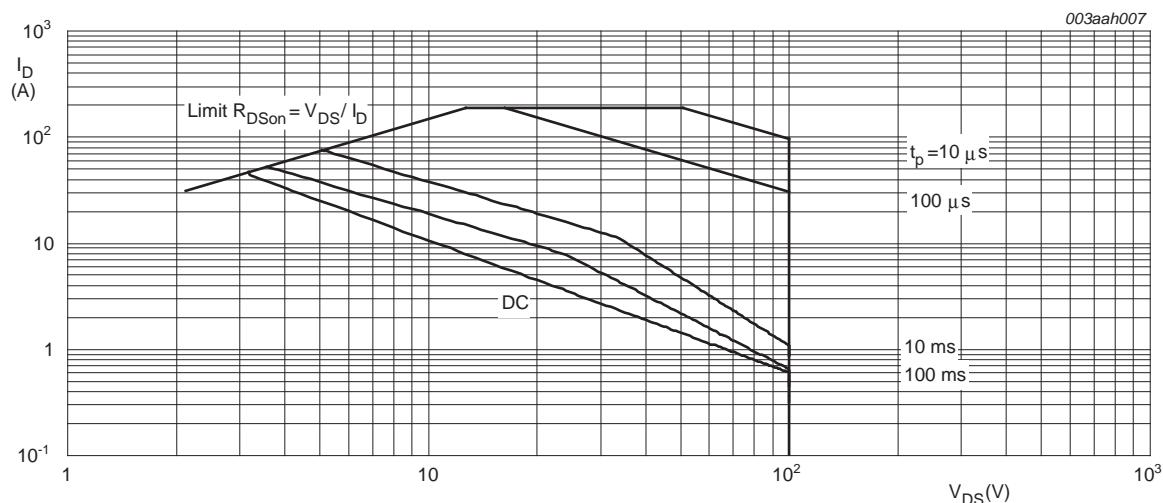


Fig 3. Maximum permissible non-repetitive avalanche current as a function of avalanche time



I_{DM} is a single pulse

Fig 4. Safe operating area; continuous and peak drain currents as a function of drain-source voltage

5. Thermal characteristics

Table 5. Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$R_{th(j\text{-}mb)}$	thermal resistance from junction to mounting base	see Figure 5	-	-	1	K/W
$R_{th(j\text{-}a)}$	thermal resistance from junction to ambient	SOT428 package ; printed-circuit board mounted ; minimum footprint	-	50	-	K/W

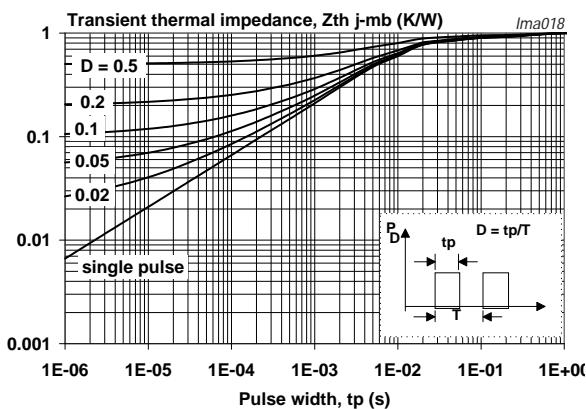


Fig 5. Transient thermal impedance from junction to mounting base as a function of pulse duration

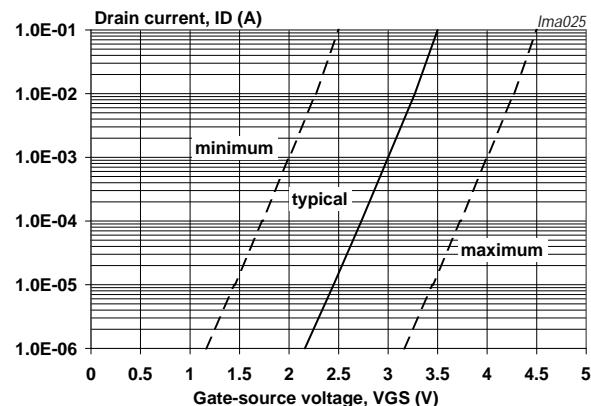


Fig 10. Sub-threshold drain current as a function of gate-source voltage

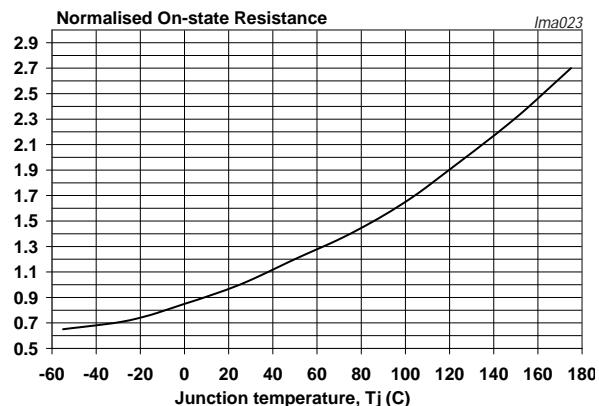


Fig 11. Normalized drain source on-state resistance factor as a function of junction temperature

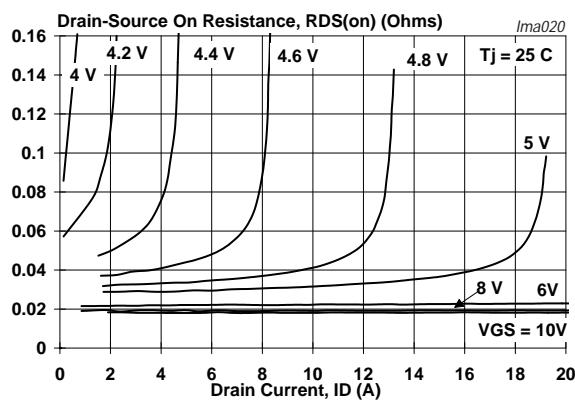


Fig 12. Drain-source on-state resistance as a function of drain current; typical values

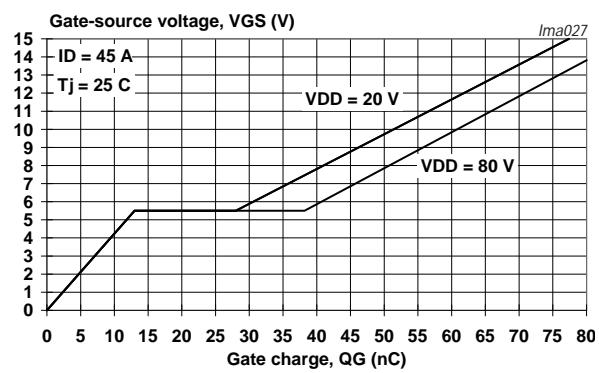


Fig 13. Gate-source voltage as a function of gate charge; typical values

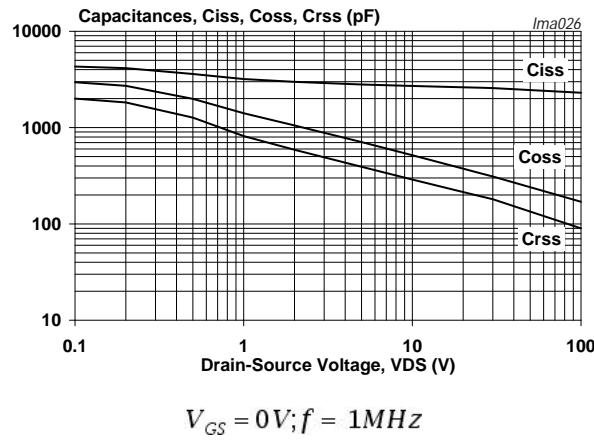


Fig 14. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

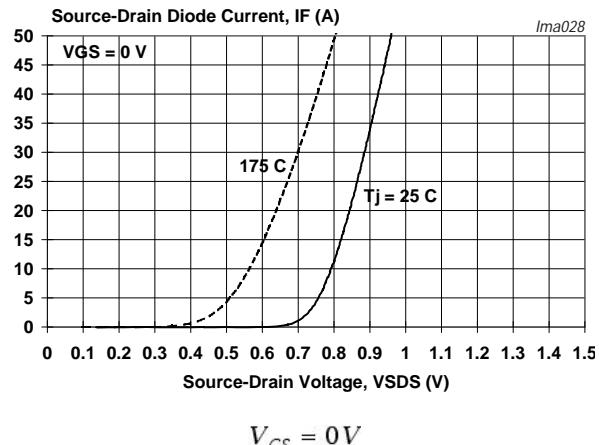


Fig 15. Source current as a function of source-drain voltage; typical values

8. Revision history

Table 7. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
PSMN025-100D v.4	20120112	Product data sheet	-	PSMN025-100D v.3
Modifications:		• Various changes to content.		
PSMN025-100D v.3	20081120	Product data sheet	-	PSMN025-100D v.2

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