

Source-Drain Diode

Symbol	Conditions	Characteristic Values		
		min.	typ.	max.
V_{SD}	(diode) $I_F = 70\text{ A}; V_{GS} = 0\text{ V}$	0.9	1.2	V
t_{rr}	$I_F = 70\text{ A}; -di_F/dt = 800\text{ A}/\mu\text{s}; V_R = 48\text{ V}$	55		ns
Q_{RM}		0.95		μC
I_{RM}		33		A

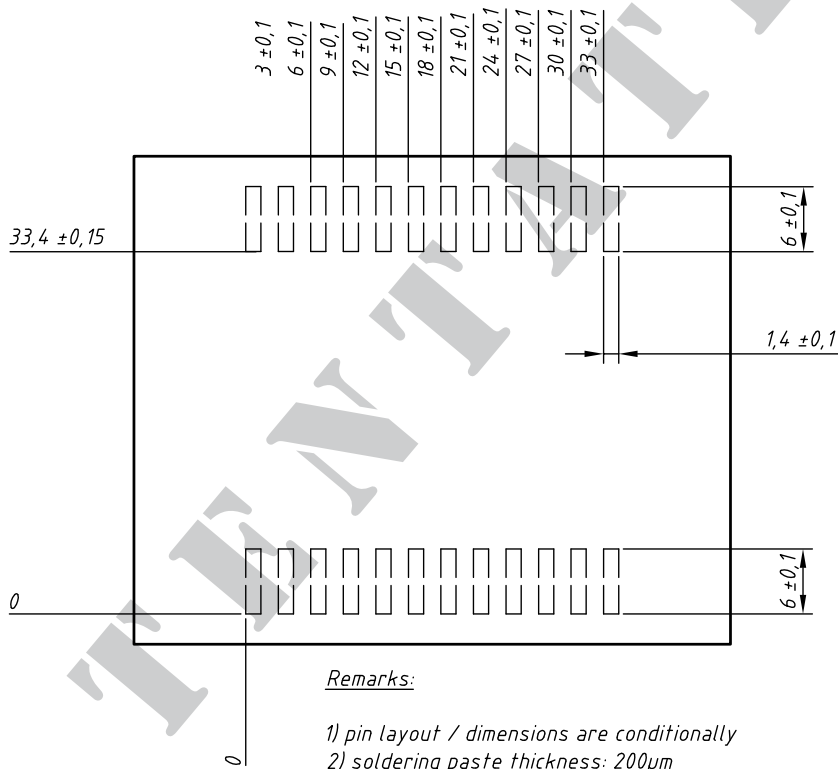
($T_J = 25^\circ\text{C}$, unless otherwise specified)

Component

Symbol	Conditions	Maximum Ratings	
I_{RMS}	per pin in main current paths (P+, N-, L1, L2, L3) may be additionally limited by external connections 2 pins for output L1, L2, L3	75	A
T_J		-55...+175	$^\circ\text{C}$
T_{sig}		-55...+125	$^\circ\text{C}$
V_{ISOL}	$I_{ISOL} \leq 1\text{ mA}, 50/60\text{ Hz}, f = 1\text{ minute}$	1000	V~
F_C	mounting force with clip	50 - 250	N

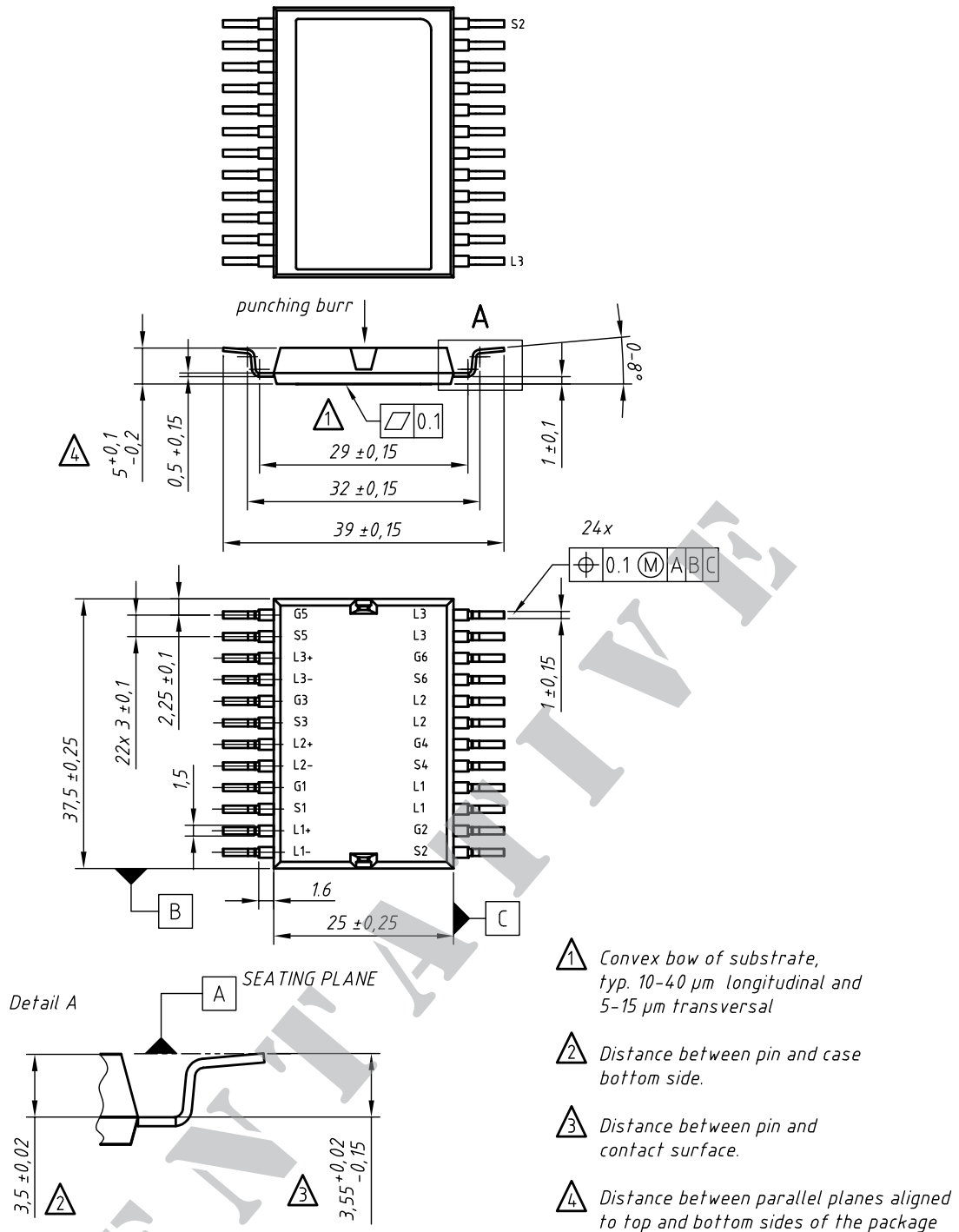
Symbol	Conditions	Characteristic Values		
		min.	typ.	max.
$R_{pin\ to\ chip}^{1)}$			tbd	$\text{m}\Omega$
C_P	coupling capacity between shorted pins and back side metallization		160	pF
Weight		25		g

¹⁾ $V_{DS} = I_D \cdot (R_{DS(on)} + 2R_{Pin\ to\ Chip})$



IXYS reserves the right to change limits, test conditions and dimensions.

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contact pin:
 - galv. tin plating, per pin side: Sn 10...25 μ m, undercoating Ni 0,2...1 μ m
 - stamping edges may be free of tin
 - punching burr: $\leq 0,05$ mm

Leads	Ordering	Part Name & Packing Unit Marking	Part Marking	Delivering Mode	Base Qty.	Ordering Code
SMD	Standard	GMM 3x100-01X1 - SMD	GMM 3x100-01X1	Blister	28	509 035

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