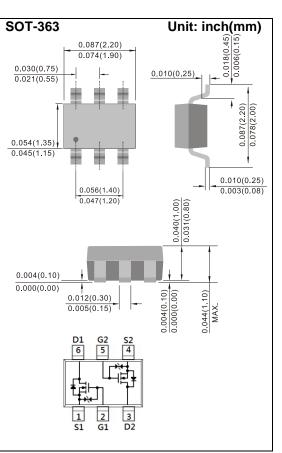
ΡΛΝ SEM CONDUCTOR **PJT7828** 30V N-Channel Enhancement Mode MOSFET Voltage 30 V Current 300mA Features Advanced Trench Process Technology ESD Protected . Specially Designed for Relay driver, Speed line drive, etc. . Lead free in compliance with EU RoHS 2011/65/EU directive. . Green molding compound as per IEC61249 Std. . (Halogen Free) •

Mechanical Data

- Case : SOT-363 Package
- Terminals : Solderable per MIL-STD-750, Method 2026



Maximum Ratings and Thermal Characteristics (T_A=25^oC unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	30	V
Gate-Source Voltage		V _{GS}	<u>+</u> 10	V
Continuous Drain Current		lo	300	mA
Pulsed Drain Current		I _{DM}	600	mA
Power Dissipation	T _A =25°C		350	mW
	Derate above 25°C	PD	2.8	mW/ºC
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C
Typical Thermal Resistance - Junction to Ambient (Note 3)		Reja	357	°C/W



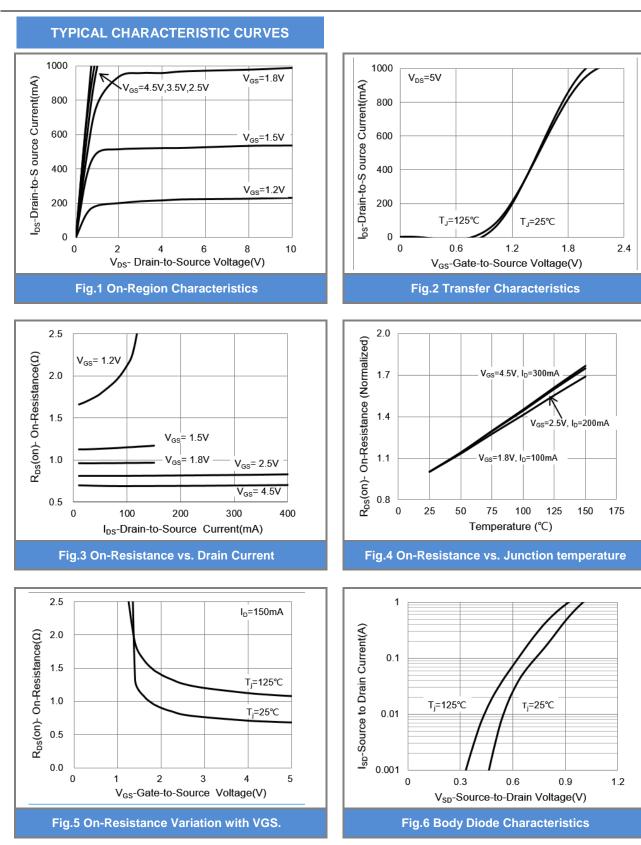
Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Static		·					
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V,I _D =250uA	30	-	-	V	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250uA	0.4	0.75	1.0	V	
Drain-Source On-State Resistance	RDS(on)	V _{GS} =4.5V,I _D =300mA	-	0.7	1.2	Ω	
		V _{GS} =2.5V,I _D =200mA	-	0.8	1.6		
		V _{GS} =1.8V,I _D =100mA	-	0.9	2.0		
		V _{GS} =1.5V,I _D =50mA	-	1.1	3.0		
		V _{GS} =1.2V,I _D =20mA	-	1.5	4.0		
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =24V,V _{GS} =0V	-	-	1	uA	
Gate-Source Leakage Current	Igss	V _{GS} = <u>+</u> 8V,V _{DS} =0V	-	-	<u>+</u> 10	uA	
Dynamic (Note 4)							
Total Gate Charge	Qg		-	0.9	-	nC	
Gate-Source Charge	Q_gs	V _{DS} =10V, I _D =300mA,	-	0.3	-		
Gate-Drain Charge	Q_{gd}	V _{GS} =4.5V	-	0.2	-		
Input Capacitance	Ciss		-	45	-	pF	
Output Capacitance	Coss	V _{DS} =10V, V _{GS} =0V,	-	14	-		
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	0.8	-		
Turn-On Delay Time	td _(on)		-	8.3	-		
Turn-On Rise Time	tr	V _{DD} =10V, I _D =300mA,	-	5.7	-	ns	
Turn-Off Delay Time	td _(off)	$V_{GS}=4V$,	-	35	-		
Turn-Off Fall Time	tf	R _G =10Ω ^(Note 1,2)	-	12	-		
Drain-Source Diode							
Maximum Continuous Drain-Source Diode Forward Current	ls		-	-	300	mA	
Diode Forward Voltage	V _{SD}	Is=300mA, V _{GS} =0V	-	0.9	1.3	V	

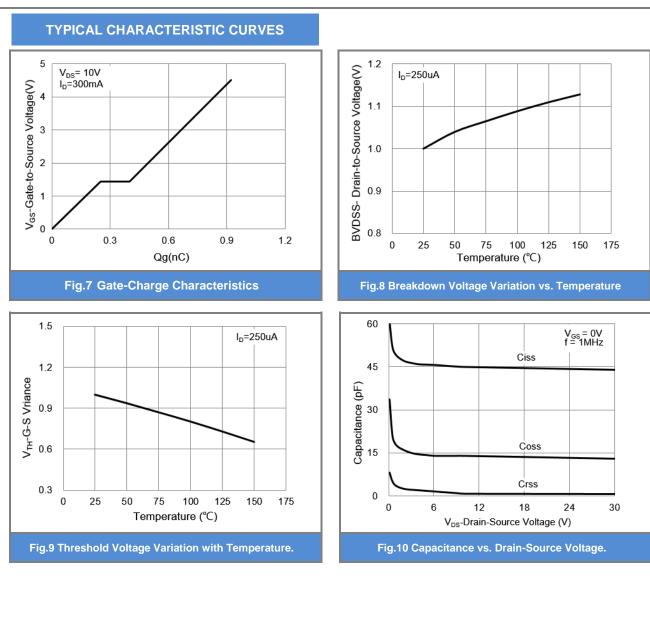
NOTES :

- 1. Pulse width
- 2. Essentially independent of operating temperature typical characteristics.
- 3. R_{®JA} is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins. mounted on a 1 inch square pad of copper
- 4. Guaranteed by design, not subject to production testing.







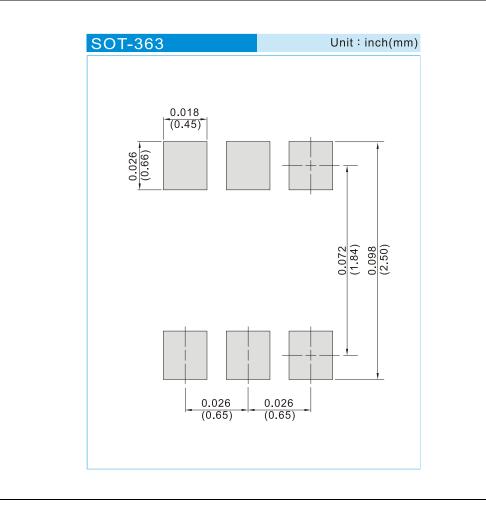




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
PJT7828	SOT-363	3K pcs / 7" reel	T28	
PJT7828	SOT-363	10K pcs / 13" reel	T28	

Mounting Pad Layout





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