

Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS	
Drain-Source Voltage		V _{DS}	30	V	
Gate-Source Voltage	V _{GS}	<u>+</u> 8			
Continuous Drain Current ^(Note 4)		lь	1.6	A	
Pulsed Drain Current ^(Note 1)		I _{DM}	6.4		
Power Dissipation	Ta=25°C		1.25	W	
	Derate above 25°C	PD	10	mW/°C	
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	°C	
Typical Thermal Resistance - Junction to Ambient ^(Note 3,4)		Reja	100	°C/W	



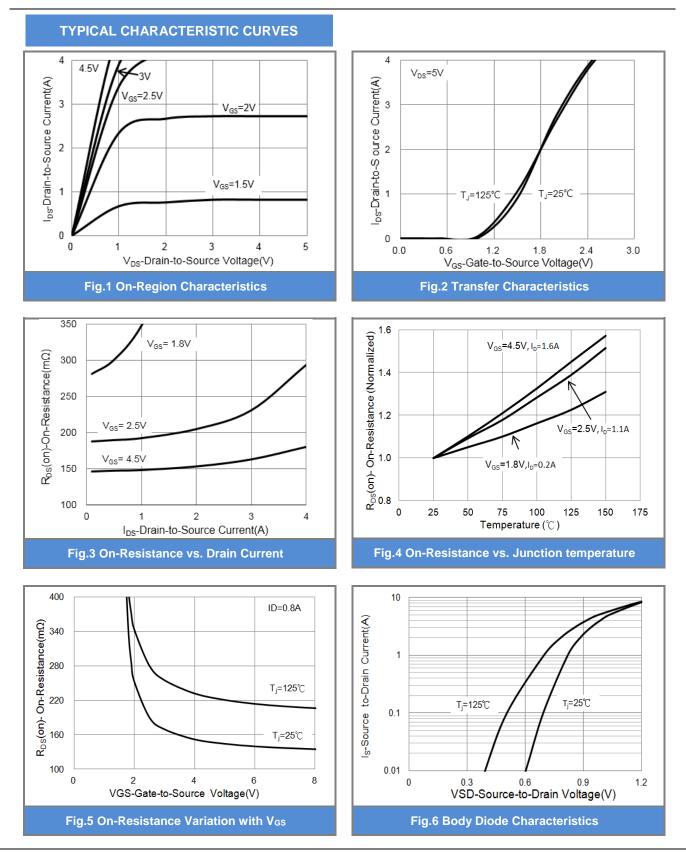
Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Static							
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =250uA	30	-	-		
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250uA	0.5	0.78	1.3	V	
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =4.5V, I _D =1.6A	-	145	200	mΩ	
		V _{GS} =2.5V, I _D =1.1A	-	185	270		
		Vgs=1.8V, Id=0.2A	-	330	570		
Zero Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0V	-	-	1	uA	
Gate-Source Leakage Current	lgss	V _{GS=<u>+</u>8V, V_{DS}=0V}	-	-	<u>+</u> 10		
Dynamic ^(Note 5)							
Total Gate Charge	Qg		-	1.5	-	nC	
Gate-Source Charge	Q _{gs}	V _{DS} =15V, I _D =1.6A, V _{GS} =4.5V ^(Note 1,2)	-	0.3	-		
Gate-Drain Charge	Q_{gd}	VGS=4.3V(10001,2)	-	0.3	-		
Input Capacitance	Ciss		-	93	-	pF	
Output Capacitance	Coss	V _{DS} =15V, V _{GS} =0V, f=1.0MHZ	-	19	-		
Reverse Transfer Capacitance	Crss		-	6	-		
Turn-On Delay Time	td _(on)		-	6.4	-		
Turn-On Rise Time	tr	V _{DD} =15V, I _D =1.6A,	-	33	-	ns	
Turn-Off Delay Time	td _(off)	$V_{GS}=4.5V$,	-	37	-		
Turn-Off Fall Time	tf	$R_G=6\Omega^{(Note 1,2)}$	-	32	-		
Drain-Source Diode							
Maximum Continuous Drain-Source Diode Forward Current	ls		-	-	1	А	
Diode Forward Voltage	V _{SD}	Is=1A, V _{GS} =0V	-	0.81	1.2	V	

NOTES :

- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. R_{OJA} 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 FR-4 with 2oz. square pad of copper.
- 4. The maximum current rating is package limited.
- 5. Guaranteed by design, not subject to production testing.







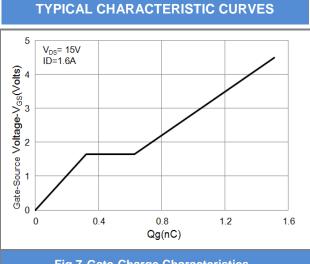


Fig.7 Gate-Charge Characteristics

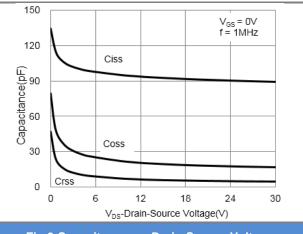
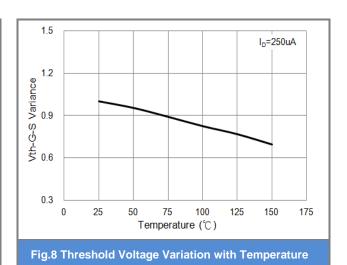


Fig.9 Capacitance vs. Drain-Source Voltage

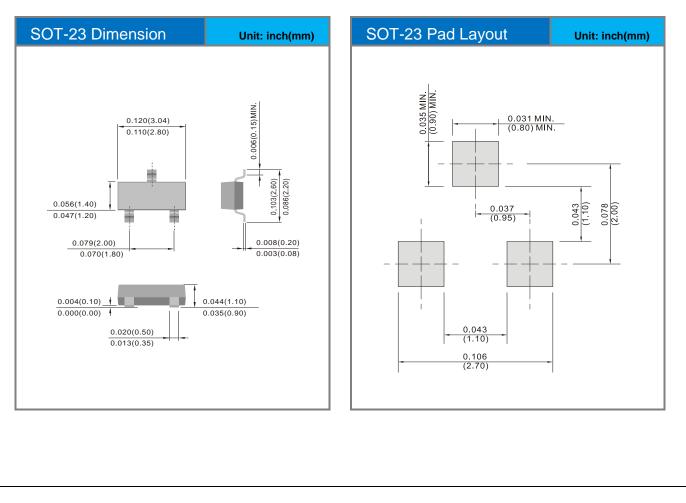




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
PJA3432-AU	SOT-23	3K pcs / 7" reel	A32	

Packaging Information & Mounting Pad Layout





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