

- This Device is PbFree and is RoHS Compliant
- Automotive On Board Charger
- Automotive DC/DC Converter for EV/HEV

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

Drain to Source Voltage	V_{DSst}	o	
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	I_S	47	A
Single Pulse Drain to Source Avalanche Energy ($I_{L(pk)} = 10.1\text{ A}$, $L = 1\text{ mH}$) (Note 3)	E_{AS}	51	mJ

Maximum Lead Temperature for Soldering
(1/8)



(T_J = 25°C unless otherwise specified) (continued)

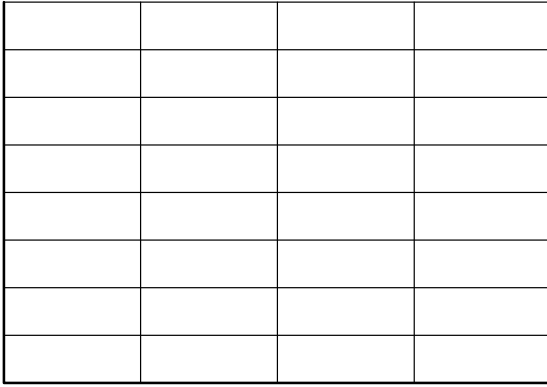
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Reverse Recovery Time	t _{RR}	V _{GS} = 5/18 V, I _{SD} = 20 A, dI _S /dt = 1000 A/μs		18		ns
Reverse Recovery Charge	Q _{RR}			85		nC
Reverse Recovery Energy	E _{REC}			11		μJ
Peak Reverse Recovery Current	I _{RRM}			10		A
Charge time	T _a			10		ns
Discharge time	T _b			7.6		ns

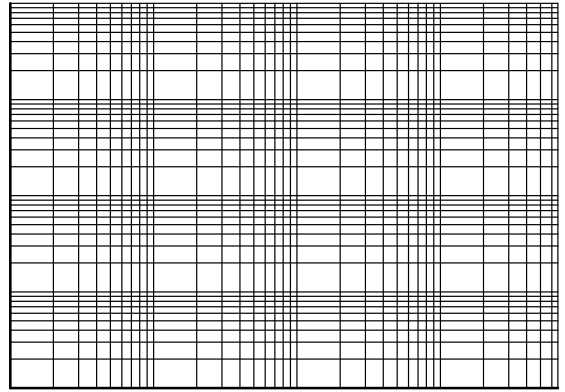
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.



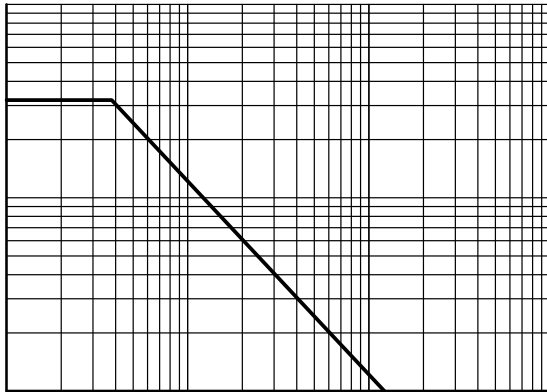


Q_g , GATE CHARGE (nC)

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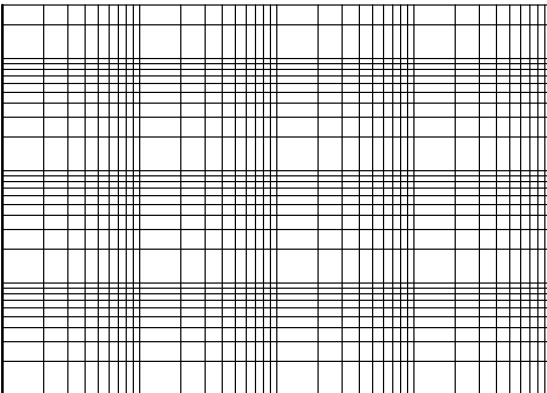
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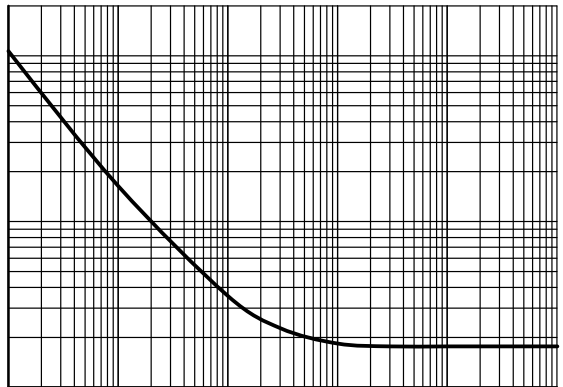
t_{AV} , TIME IN AVALANCHE (ms)



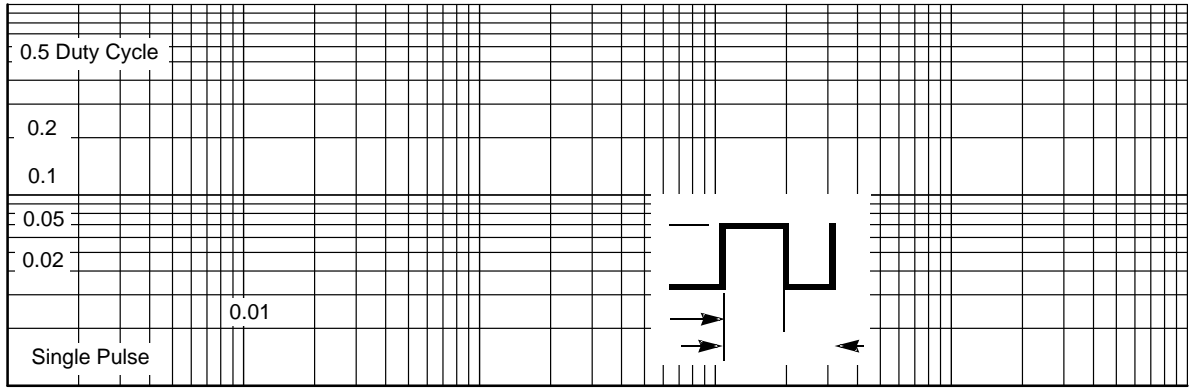
T_C , CASE TEMPERATURE (°C)



V_{DS}



$Z_{\theta JC}(t)$. EFFECTIVE TRANSIENT
THERMAL RESISTANCE ($^{\circ}\text{C}/\text{W}$)



t , RECTANGULAR PULSE DURATION (sec)

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