

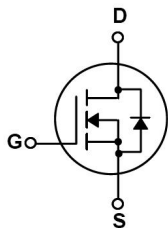
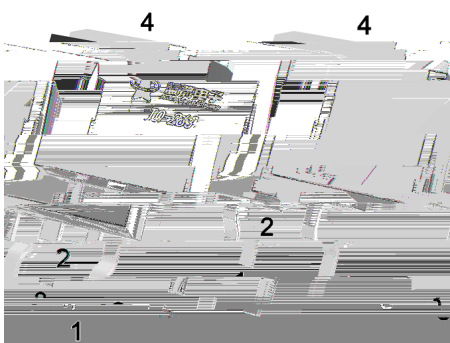
Rev.A Apr.-2023

TO-263 N
 N-CHANNEL MOSFET in a TO-263 Plastic Package.

H₁ / DHF0T434
 Ulwud Lrw Rq0Uhvfvwdqfh/idvw vwlvfklqj/ Txdllilhg wr DHF0T434 Vwdqgdugv iru Hlj k Uhlldellwy/
 HI Surgxfl

3 SIF

These devices are well suited for high efficient switched mode power supplies Active power factor correction, electronic lamp ballast based on half bridge topology, Meet the stringent requirements of automotive applications.



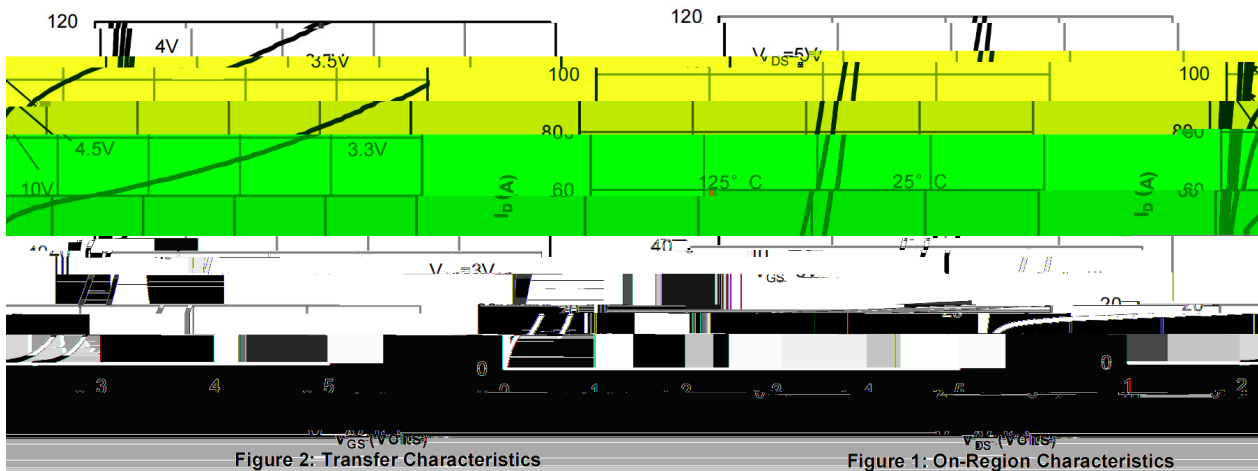
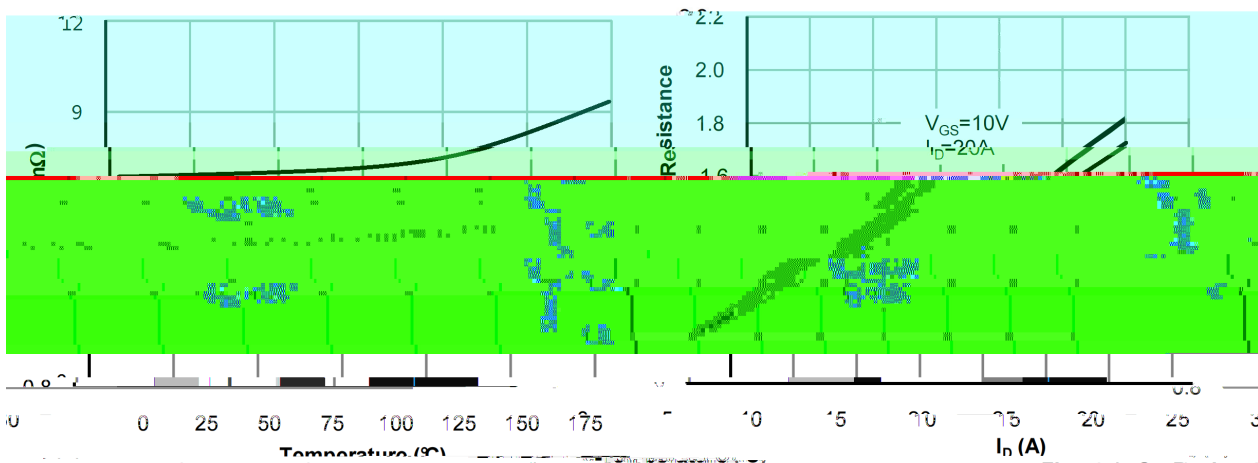
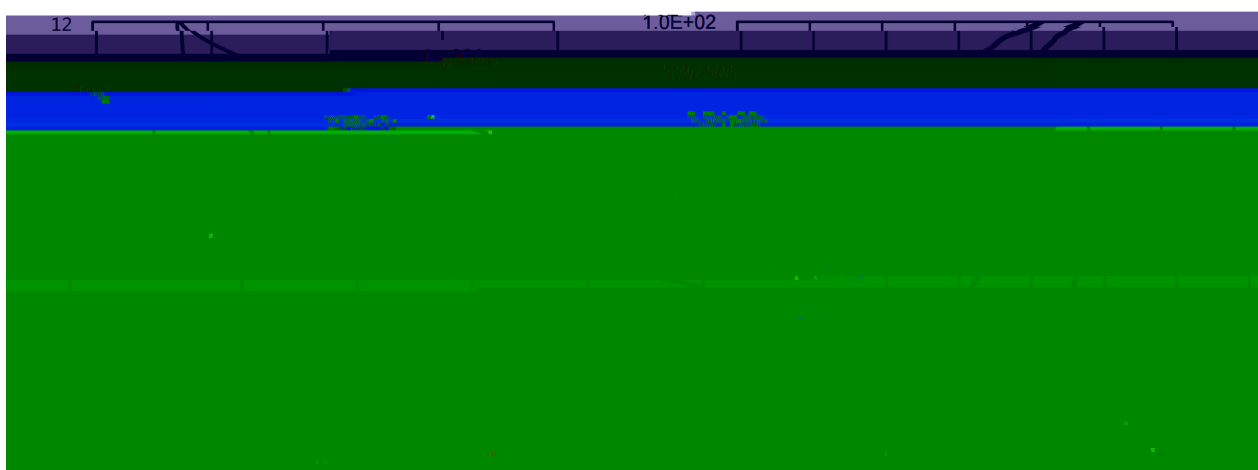
PIN1 G PIN 2 4 D PIN 3 S

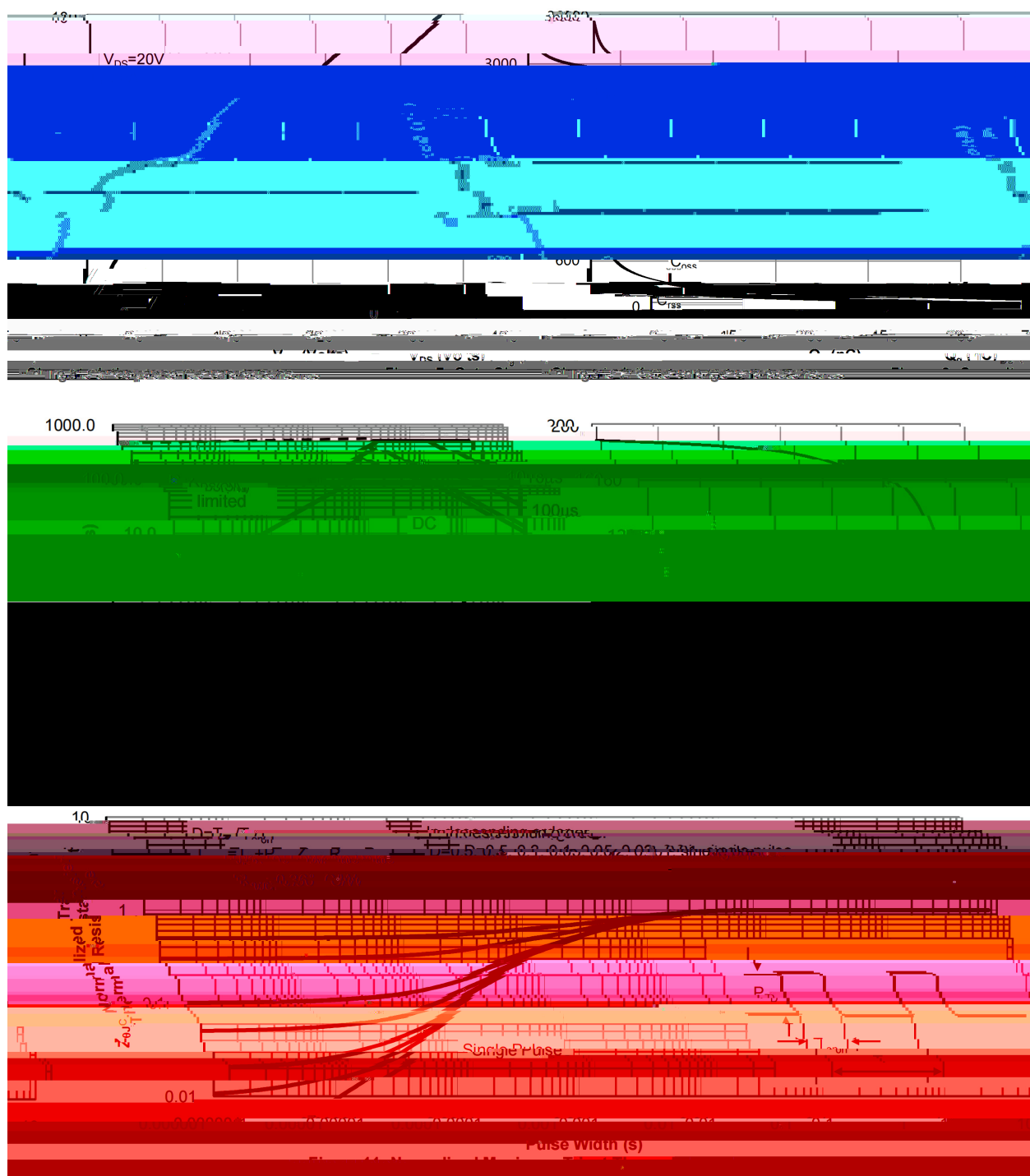
Parameter		N Symbol	Rating	H Unit
Drain-Source Voltage		V _{DSS}	40	V
Drain Current		I _D (T _C =25)	196	A
Pulsed Drain Current		I _{DM}	500	A
Gate-Source Voltage		V _{GS}	±20	V
Single Pulsed Avalanche Energy(L=0.5mH)		E _{AS}	561.8	mJ
Avalanche Current		I _{AS}	26.5	A
Total Power Dissipation		P _D (T _C =25)	347	W
Junction and Storage Temperature Range		T _J ,T _{STG}	-55 to 150	
Thermal Resistance-Junction to Ambient	t ≤ 10s	R θ JA	15	/W
	Steady-State		60	
Thermal Resistance-Junction to Case	Steady-State	R θ JC	0.36	

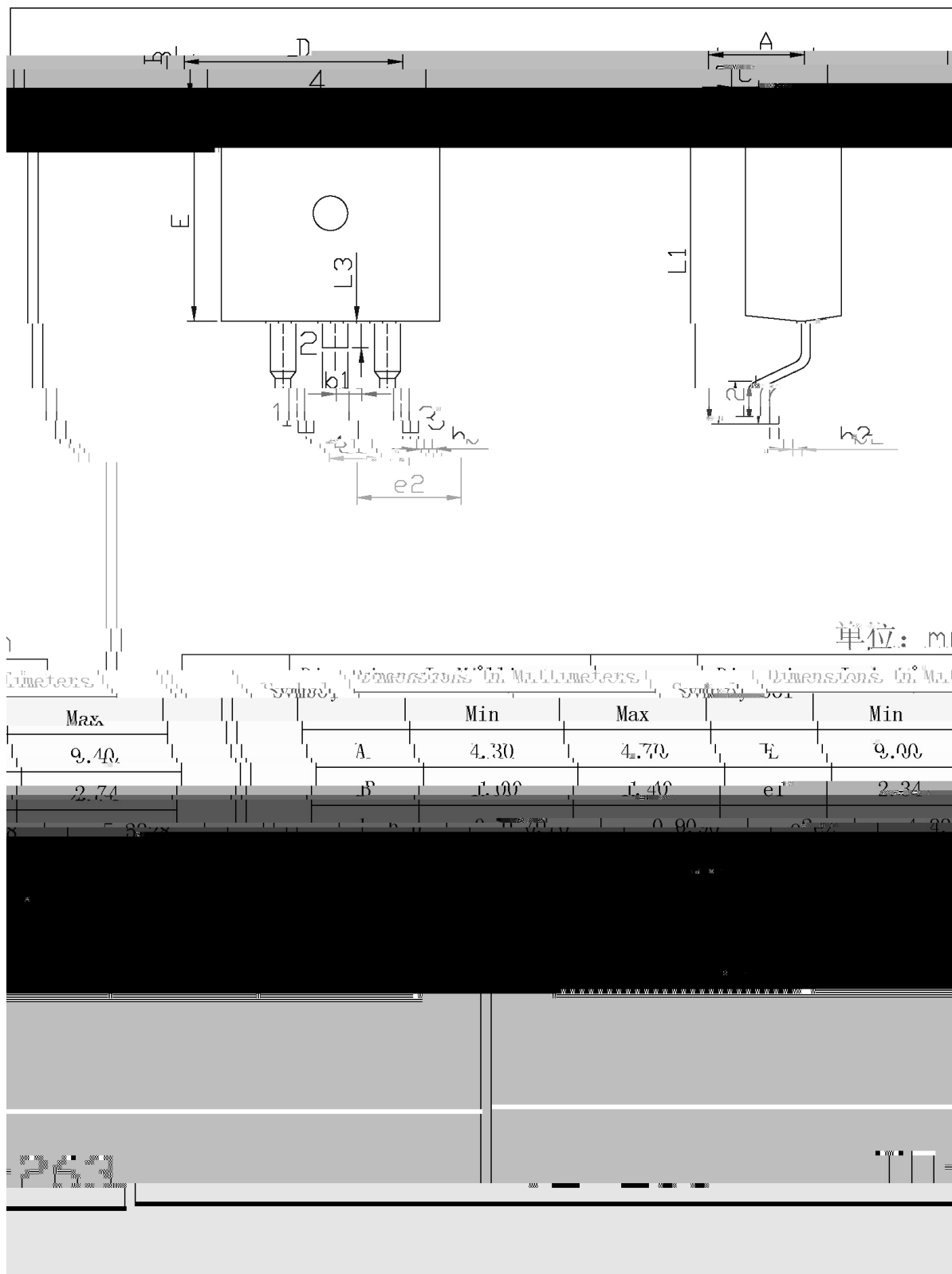
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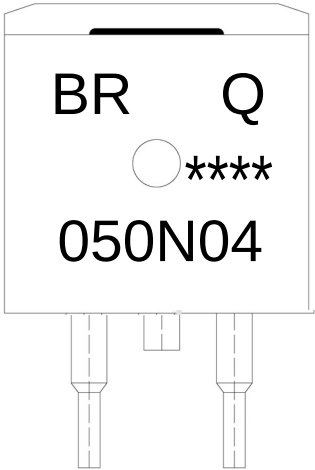
Parameter	N Symbol	Test Conditions	Min	Typ	Max	H Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	40			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=40V$ $V_{GS}=0V$			1	μA
Gate-Body Leakage Current Forward	I_{GSS}	$V_{GS}=\pm 20V$ $V_{DS}=0V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\mu A$	1	1.7	3	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=20A$		4.5	5	m Ω
		$V_{GS}=4.5V$ $I_D=10A$		7	10	
Forward On Voltage	V_{SD}	$V_{GS}=0V$ $I_S=1A$			1.2	V
Gate resistance	R_g	$f=1MHz$		2.3		Ω
Input Capacitance	C_{iss}	$V_{DS}=25V$ $V_{GS}=0V$ $f=1MHz$		2950		pF
Output Capacitance	C_{oss}			210		
Reverse Transfer Capacitance	C_{rss}			190		

Parameter	^N Symbol	Test Conditions	Min	Typ	Max	^H Unit
Total Gate Charge	$Q_g(10V)$	$V_{GS}=10V$ $V_{DS}=20V$ $I_D=20A$		70		nC
Total Gate Charge	$Q_g(4.5V)$			15		
Gate Source Charge	Q_{gs}			15		
Gate Drain Charge	Q_{gd}			22		
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=20V$ $R_L=1\Omega$ $R_{GEN}=3\Omega$		15		ns
Turn-On Rise Time	t_r			30		
Turn-Off Delay Time	$t_{d(off)}$			54		
Turn-Off Fall Time	t_f			20		









EU	⌘	N		
Q	⌘			
383Q37	⌘	N		
****	⌘	N		N

Note:	
BR:	Company Code
Q:	Automobile halogen-free product Code
050N04:	Product Type
****:	Lot No. Code, code change with Lot No

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