



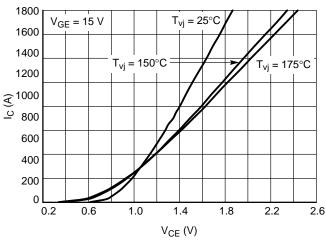
Product Description

The NVH950S75L4SPC is a power module from the VE-Trac Direct family of highly integrated power modules with industry standard footerpatk from Flybratio (H.E.Wi) chnek delsc (ricpi Vehidileg high) and Elr2259id (HE.85(eh)5 for H2(eh30r8 r907IG/BTe)7iij/Teo)6 current density, while offering robust short circuit protection and increased blocking voltage. Additionally, FS4 750 V Narrow Mesa IGBTs show low power losses during lighter loads, which helps to improve overall system efficiency in automotive applications.

For assembly ease and reliability, a new generation of press-fit pins are integrated into the power module signal terminals. In addition, the

Symbol	Parameter	Rating	Unit
T_{vj}	Operating Junction Temperature	40 to 175	°C
T _{STG}	Storage Temperature	40 to 125	°C
V _{ISO}	Isolation Voltage (DC, 0 Hz, 1 s)	4200	V
L _{sCE}	Stray Inductance	8	nΗ
RCC'+EE'	Module Lead Resistance, Terminals Chip	0.75	mΩ
G	Module Weight		· · · · · · · · · · · · · · · · · · ·

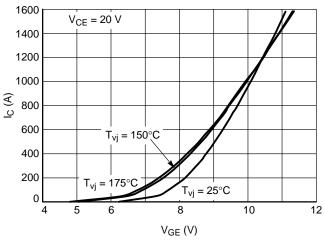
TYPICAL CHARACTERISTICS



1600 $V_{GE} = 17 \text{ V}$ $V_{GE} = 13 \text{ V}$ 1400 $V_{GE} = 15 V$ V_{GE} = 11 V 1200 1000 800 $V_{GE} = 9 V$ 600 400 200 T_{vi} = 150°C 2 0 $V_{CE}(V)$

Figure 2. IGBT Output Characteristic

Figure 3. IGBT Output Characteristic



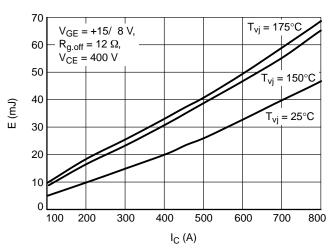
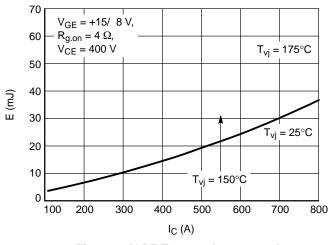


Figure 4. IGBT Transfer Characteristic

Figure 5. IGBT Turn-off Losses vs. I_C



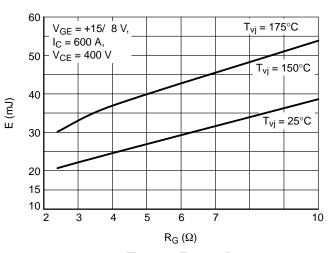


Figure 6. IGBT Turn-on Losses vs. I_C

Figure 7. E_{ON} vs. R_G

TYPICAL CHARACTERISTICS

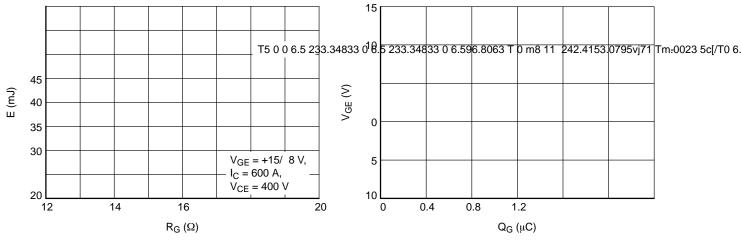


Figure 8. E_{OFF} vs. R_{G}

Figure 9. Gate Charge Characteristic

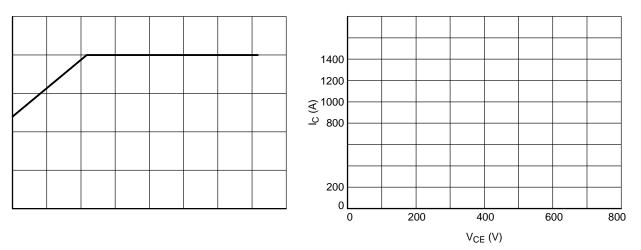


Figure 10. Maximum Allowed V_{CE}

Figure 11. Reverse Bias Safe Operating Area

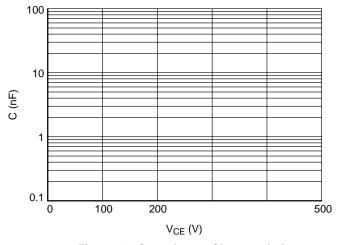


Figure 12. Capacitance Characteristic

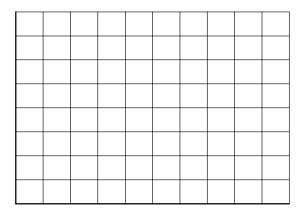


Figure 13. Diode Forward Characteristic

SSDC33, 154.50x92.0 (SPC) CASE 183AC ISSUE A

DATE 11 DEC 2019

GENERIC MARKING DIAGRAM*

XXXXXXXXXXXXXXXXXXXXXX ATYYWW

XXXXX = Specific Device Code

G = Pb-Free Package
AT = Assembly & Test Site Code

YYWW= Year and Work Week Code

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

SSDC33, 154.50x92.0 (SPC) CASE 183AC ISSUE A

DATE 11 DEC 2019

_

-

