



- $V_{CE}=1350V$
  - $I_C=40A @ T_C=100$
  - $V_{CE(sat)}=2.0V$
- 
- Trench and field-stop technologi





$BV_{CES}$	Collector-emitter breakdown voltage	$V_{GE}=0V, I_C=250\mu A$	1350	-	-	V
$I_{CES}$	Collector-emitter leakage current	$V_{CE}=1350V, V_{GE}=0V$	-	-	100	$\mu A$
$I_{GES}$	Gate leakage current, forward Gate , e	$V_{GE}=20V, V_{CE}=0V$	-	-	100	nA



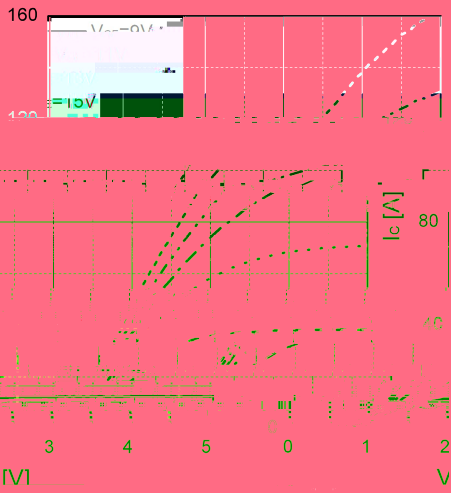


Fig 1. Typical output characteristic ( $T_{vj}=25^{\circ}\text{C}$ )

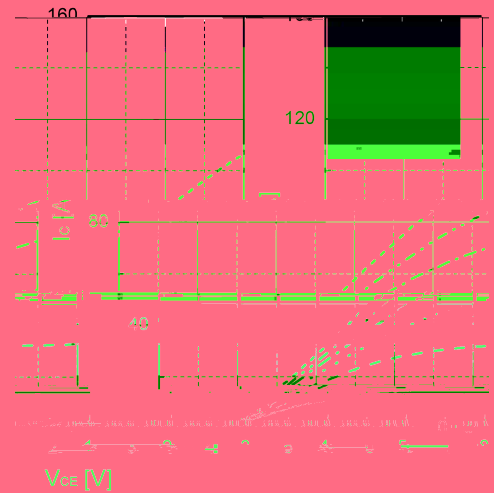


Fig 2. Typical output characteristic ( $T_{vj}=175^{\circ}\text{C}$ )

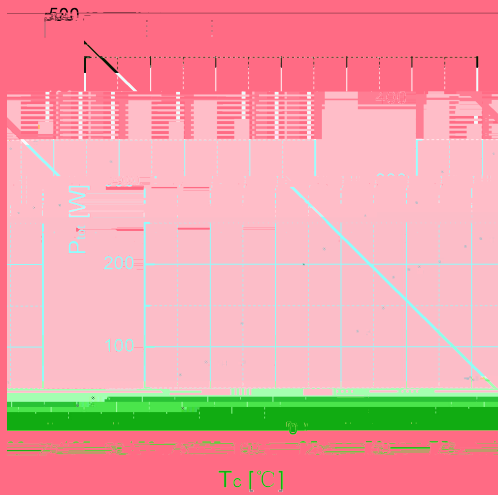


Fig 3. Power dissipation as a function of  $T_c$

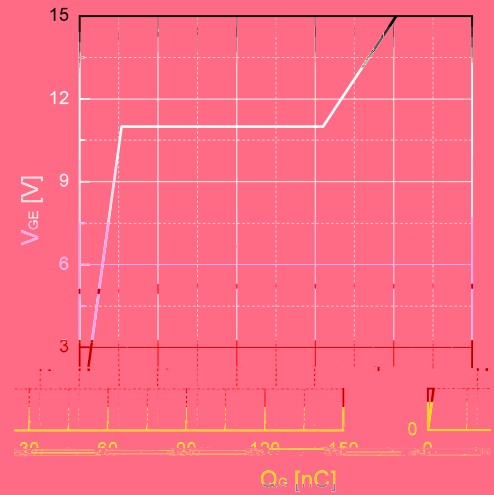


Fig 4. Typical Gate charge

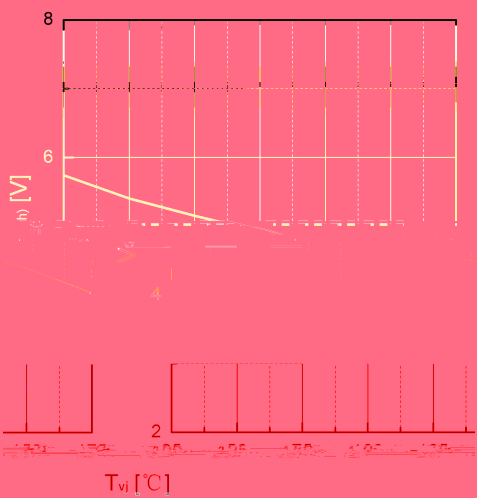


Fig 5. Typical  $V_{GE(th)}$  as a function of  $T_{vj}$   
( $I_c=1\text{mA}$ )

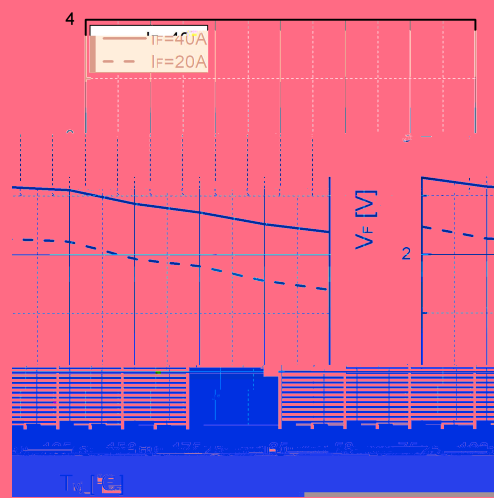


Fig 6. Typical  $V_F$  as a function of  $T_{vj}$

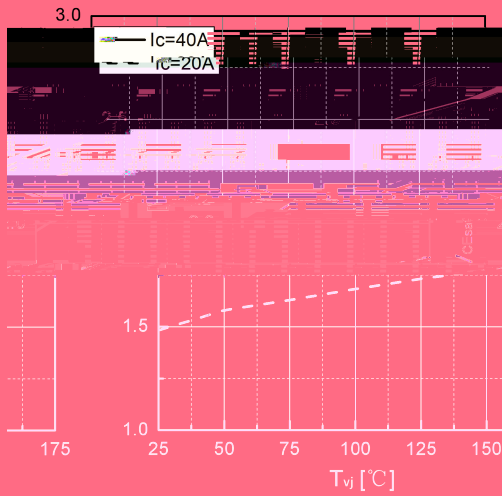


Fig 7. Typical  $V_{CEsat}$  as a function of  $T_{vj}$

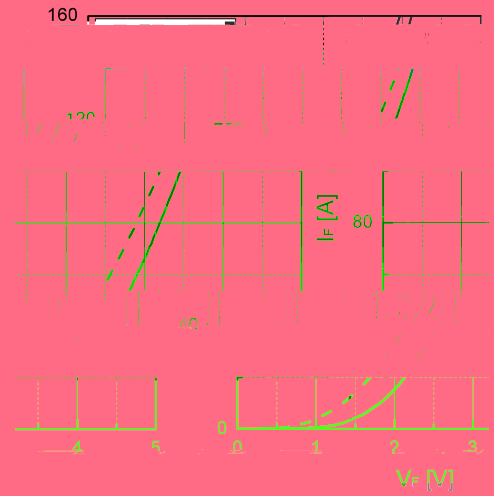


Fig 8. Typical  $I_F$  as a function of  $V_F$

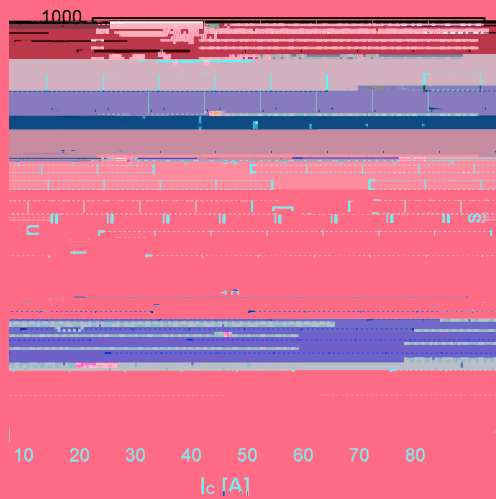


Fig 9. Typical switching time as a function of  $I_C$

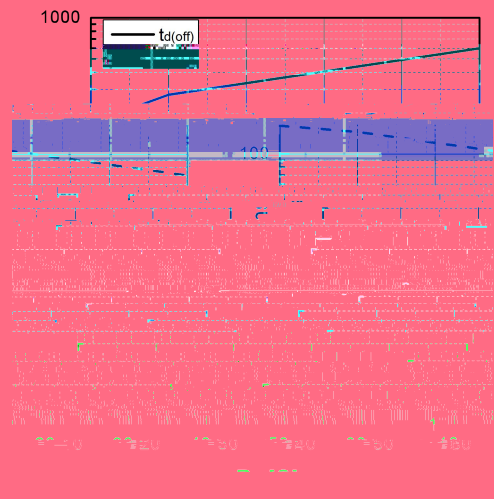


Fig 10. Typical switching times as a function of  $R_G$

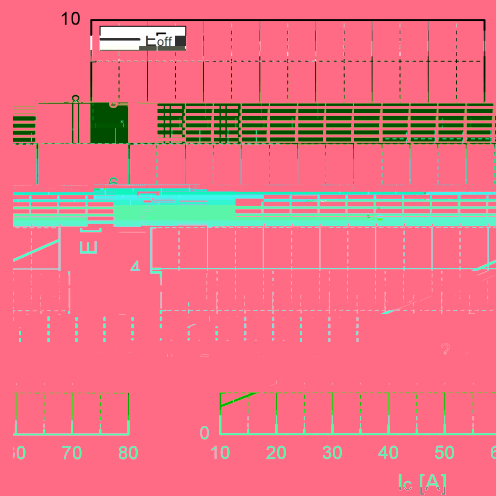


Fig 11. Typical switching energy losses as a function of  $I_C$

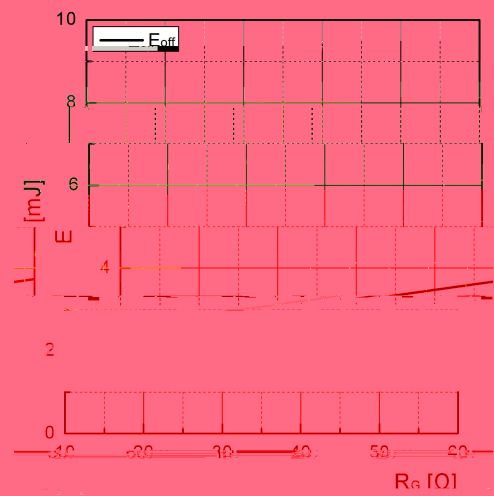


Fig 12. Typical switching energy losses as a function of  $R_G$



Fig 13. Typical capacitance as a function of  $V_{CE}$   
( $f=1\text{MHz}$ ,  $V_{GE}=0\text{V}$ )

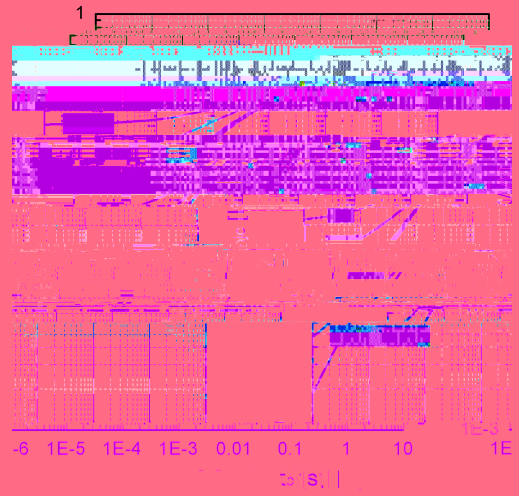


Fig 14. Transient thermal impedance of IGBT





Date	Revision	Changes
2025-02-05	Rev 1.0	Release of the preliminary datasheet.
2025-02-27	Rev 1.1	Add graph and character update

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