

Ratings

Collector-Emitter Voltage	1200	V
Continuous Drain Current	30	A
Operating Temperature	225	°C

Electrical Characteristics

Parameters	Symbol	Conditions	Value			Unit
			Min	Typ	Max	

On characteristics

Forward Voltage	V_F	$T_j=25^\circ\text{C}$	-	0.75	-	V
		$T_j=225^\circ\text{C}$	-	0.55	-	V

Off characteristics

Collector-Emitter Blocking Voltage	BV_{AK}	$I_F=0\text{ mA}$	1200	-	-	V
Total Collector Leakage Current	I_R	$V_{AK}=600\text{V}, I_B=0\text{mA}, T_j=25^\circ\text{C}$	-	0.5	-	μA
		$V_{AK}=600\text{V}, I_B=0\text{mA}, T_j=200^\circ\text{C}$	-	3.8	-	μA

Switching characteristics

Turn-off Energy	E_{off}	$V_{AK}=600\text{V}, I_F=25\text{ A},$ Inductive load	-	110	-	μJ
Turn-off Energy	E_{off}	$V_{AK}=400\text{V}, I_F=25\text{ A},$ Inductive load	-	60	-	μJ
Turn-off Energy	E_{off}	$V_{AK}=200\text{V}, I_F=25\text{ A},$ Inductive load	-	20	-	μJ

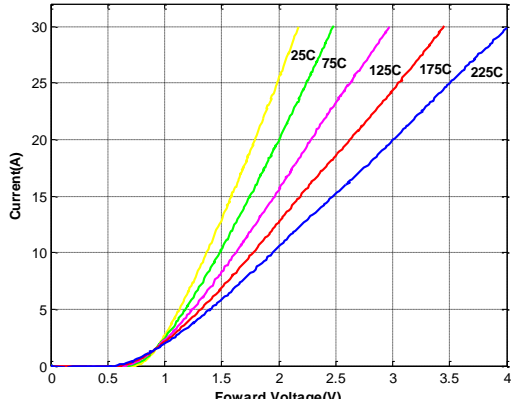


Fig.1: i-v curves

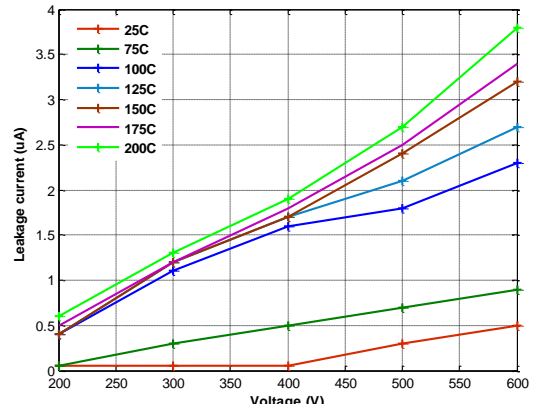


Fig.2: Leakage Current

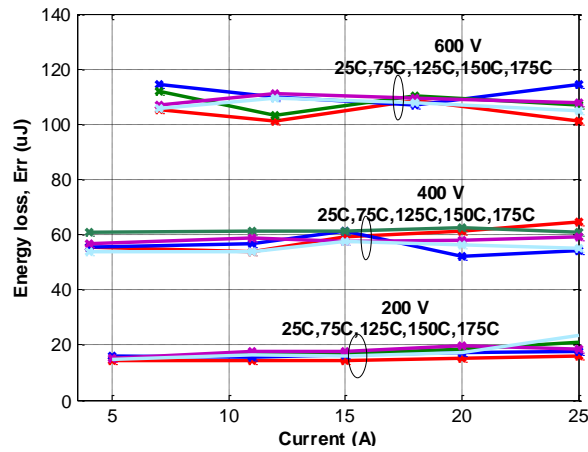


Fig.3: Switching Energy Losses