

Ratings

Collector-Emitter Voltage	1200	V
Continuous Drain Current	8	A
Operating Temperature	225	°C

Electrical Characteristics

Parameters	Symbol	Conditions	Value			Unit
			Min	Typ	Max	

On characteristics

Forward Voltage	V_F	$T_j=25^\circ\text{C}$	-	0.8	-	V
		$T_j=225^\circ\text{C}$	-	0.65	-	V

Off characteristics

Collector-Emitter Blocking Voltage	BV_{AK}		1200	-	-	V
Total Collector Leakage Current	I_R	$V_{AK}=600\text{V}, T_j=25^\circ\text{C}$	-	0.5	-	μA
		$V_{AK}=600\text{V}, T_j=200^\circ\text{C}$	-	4.3	-	μA

Switching characteristics

Turn-off Energy	E_{off}	$V_{AK}=600\text{V}, I_F=8\text{ A},$ Inductive load	$T_j=25^\circ\text{C}$	-	17	-	μJ
			$T_j=150^\circ\text{C}$	-	19	-	μJ
Turn-off Energy	E_{off}	$V_{AK}=400\text{V}, I_F=8\text{ A},$ Inductive load	$T_j=25^\circ\text{C}$	-	12	-	μJ
			$T_j=150^\circ\text{C}$	-	12.2	-	μJ

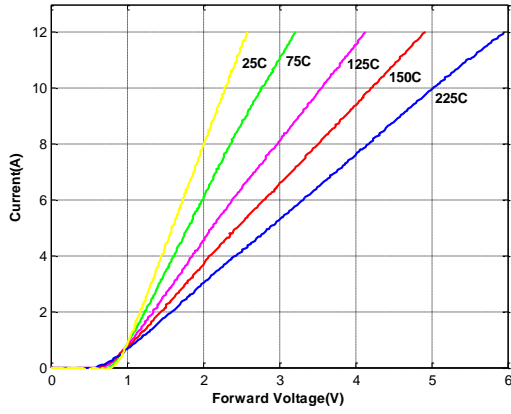


Fig.1: i-v curves

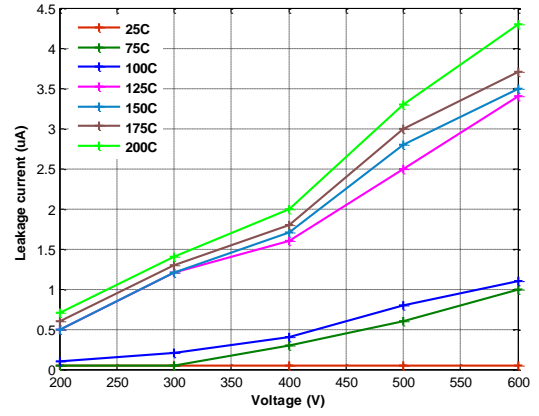


Fig.2: Leakage Current

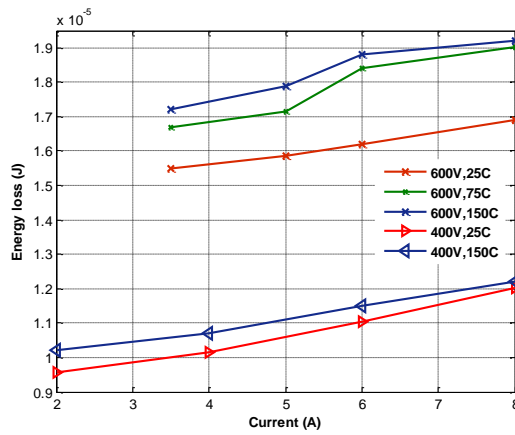


Fig.3: Switching Energy Losses