

**List of Symbols**

$di/dt$	Critical rate of rise of on-state current
$dv/dt$	Critical rate of rise of off-state voltage
$E_{rec}$	Reverse recovery energy
$E_{SW}$	Switching energy
$I^2t$	$I^2t$ value
$I_C$	Collector current
$I_{DRM}$	Peak off-state current
$I_{F(AV)}$	Mean forward current
$I_{FM}$	Peak forward current
$I_{F(RMS)}$	RMS forward current
$I_{FSM}$	Surge forward current
$I_{GT}$	Gate trigger current
$I_H$	Holding current
$I_O$	Output current
$I_{RRM}$	Peak reverse recovery current
$I_{T(AV)}$	Mean on-state current
$I_{TM}$	Peak on-state current
$I_{TRMS}$	RMS on-state current
$I_{TSM}$	Surge on-state current
$Q_{rr}$	Reverse recovery charge
$r_F$	Forward slope resistance
$r_T$	Slope resistance
$R_{th(j-c)}$	Thermal resistance junction to case
$T_C$	Case temperature
$T_j$	Junction temperature
$T_{vj}$	Virtual junction temperature
$t_q$	Circuit commutated turn-off time
$t_{rr}$	Reverse recovery time
$V_{CE(SAT)}$	Collector-emitter saturation voltage
$V_D$	Rated continuous (direct) output voltage
$V_{DRM}$	Repetitive peak off-state voltage
$V_{FM}$	Peak forward voltage
$V_{FO}$	Threshold voltage
$V_{GT}$	Gate trigger voltage
$V_{ISO}$	Isolation voltage
$V_{RRM}$	Repetitive peak reverse voltage (50Hz, 10ms)
$V_{TM}$	Peak on-state voltage
$V_{TO}$	Threshold voltage