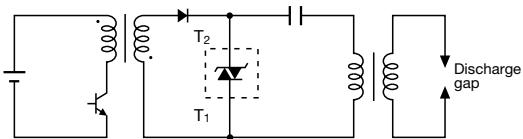


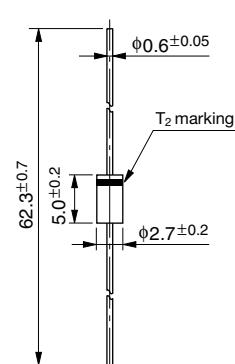
PNP Switch

ET0131, ET0141, ET0151, ET0201

Example of application circuit (ignition)



External Dimensions



Weight: Approx. 2.6g

Absolute Maximum Ratings

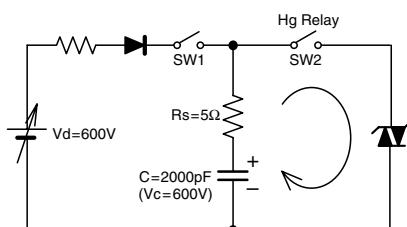
Parameter	Symbol	Ratings				Unit	Conditions
		ET0131	ET0141	ET0151	ET0201		
Non-repetitive surge voltage	V _{DSM} ⁺			600		V	C=2000pF, R _S =5Ω, T _j =25°C, V _C =600V (T ₂ ⁺ , T ₁ ⁻), 1 shot, Refer to Fig1
Repetitive off-state voltage	V _{DRM} ⁺	90	115	115	170	V	T _j =-40°C ~ +125°C, only (T ₂ ⁺ , T ₁ ⁻)
RMS on-state current	I _T (RMS)			0.6		A	DC, T _l ≤ 112°C
Surge on-state current	I _{TS}			80		A	T _a =25°C, W _p =10μS, Half-sine-wave 1cycle, peak value, f=50Hz
Rate-of-rise of on-state current	dI/dt			30		A/μsec.	
Junction temperature	T _j			-40~+125		°C	
Storage temperature	T _{stg}			-40~+125		°C	

Electrical Characteristics

Parameter	Symbol	Ratings				Unit	Conditions
		ET0131*	ET0141	ET0151*	ET0201		
Breakeover voltage	V _{BO} ⁺	120~138	134~146	142~157	190~210	V	
Breakeover current	I _{BO} ⁺	150max		100max		μA	
Off-state leakage current	I _{DRM} ⁺			10max		μA	V _D =V _{DRM} ⁺
Holding Current	I _H ⁺			25typ		mA	
	I _H ⁻			20typ		mA	
On-state voltage	V _T			±2.5		V	I _T =±10A
Insulation resistance	R			100min		MΩ	Between lead and side of plastic body (Except surface for leads)
Thermal resistance	R _{th(j-l)}			20max		°C/W	Between junction and lead

*: Under development

Fig.1



As the SW2 remains open, close the SW1 to charge the capacitor, C=2000pF, up to 600V to open the SW1. After the capacitor charged up to the certain voltage, close the SW2 and impose voltage on the die.

ET0131, ET0141, ET0151, ET0201