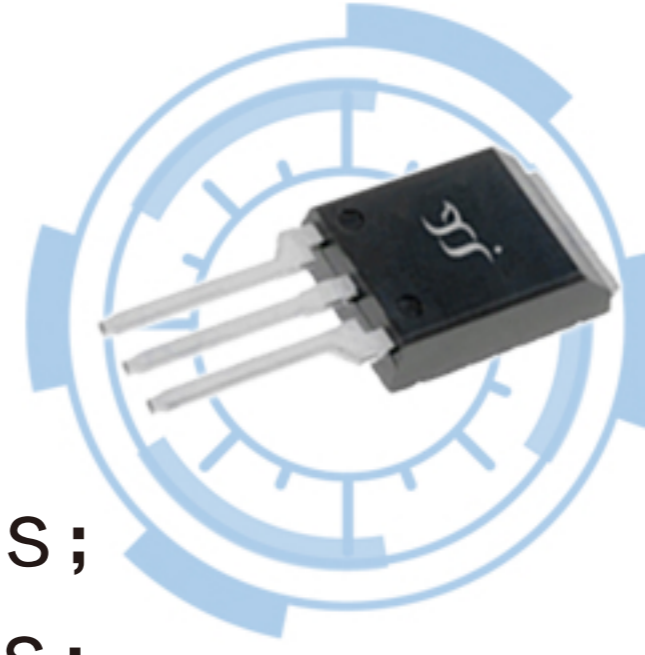


IGBT Discrete For PTC of Auto Industry

Product Introduction

1. Super TO-220 standard packaging
2. $V_{CES} = 1200V$, $I_C = 40A \sim 80A$;
3. The product is mainly used in PTC application;
4. The high frequency IGBT modules and other market mainstream products are completely pin to pin alternatives;
5. Environmentally friendly complying with RoHS standards;



■ Super TO-220

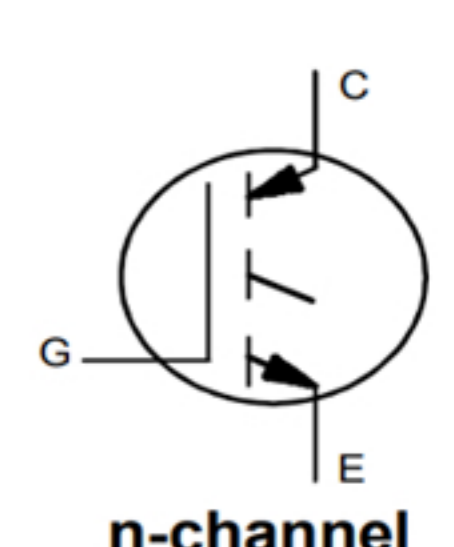


■ Super TO-263

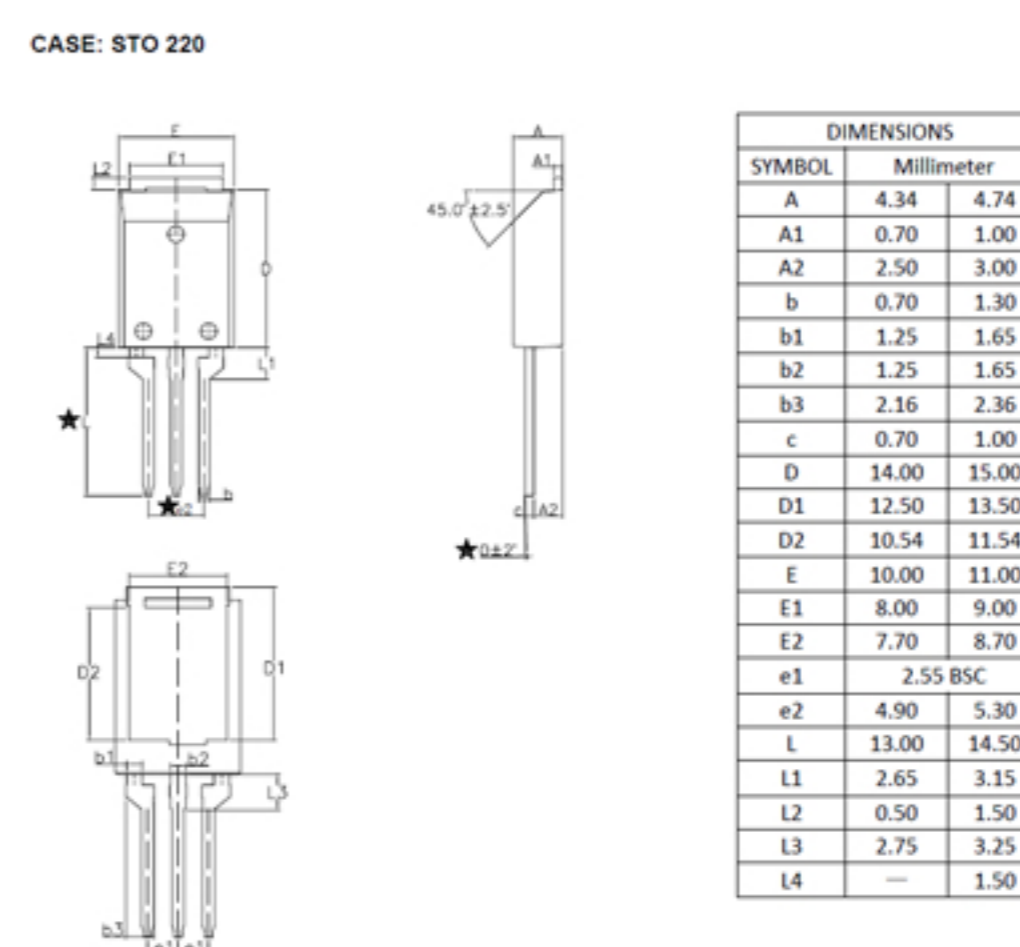
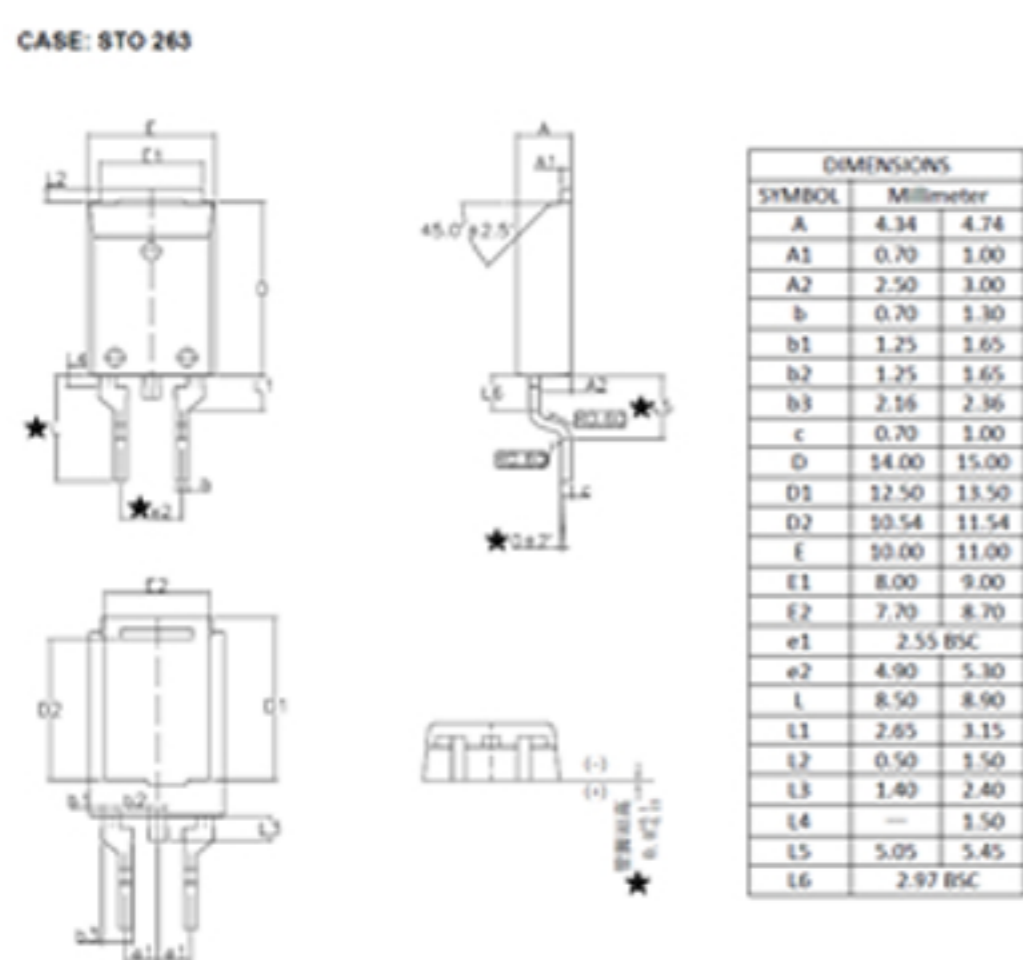
Product Features

1. Trench- FS structure has better balance of blocking capacity and Low saturation voltage ;
2. Maximum junction temperature $T_{jmax} = 175\text{ }^\circ\text{C}$;
3. High efficiency characteristics with very low $V_{ce(sat)}$ and slow turn-off characteristics, suitable for PTC applications;

Electrical Parameters

TYPE. NO.	Specification	Package	$V_{cesat}@25^\circ\text{C}$	$E_{off}@25^\circ\text{C}$	Structure
DGS40N120ATL0A	40A/1200V	Super TO-220	1.80V	2.5mJ	 <p>n-channel</p>
DGS80N120ATL1B	75A/1200V	Super TO-220	1.75V	4.6mJ	
DGR40N120ATL0A	40A/1200V	Super TO-263	1.80V	2.5mJ	
DGR80N120ATL1B	75A/1200V	Super TO-263	1.75V	4.6mJ	

Application Circuits



Application



■ PTC