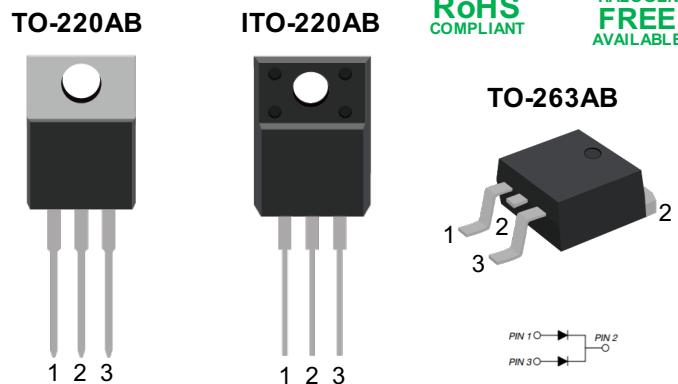


## 30A, 200V Low Forward Voltage Schottky Rectifiers

### FEATURES

- Trench MOS schottky barrier rectifiers
- Low forward voltage drop
- High efficiency, low power loss
- High temperature soldering guaranteed:  
270°C/10 seconds for TO-220AB and ITO-220AB  
260°C/10 seconds for TO-263AB
- RoHS compliant



### MECHANICAL DATA

- Case: TO-220AB, ITO-220AB, TO-263AB
- Case material: molding compound meets UL 94V-0 flammability rating
- Polarity: as marked on case body

P/N	Package
ST30H200CT	TO-220AB
ST30H200FCT	ITO-220AB
ST30H200TA	TO-263AB

### TYPICAL APPLICATION

General purpose use in AC to DC bridge full wave rectification for SMPS, lighting, adapter, charger, home appliance, office equipment and telecommunication.

### MAXIMUM RATINGS

$T_A=25^\circ\text{C}$  unless otherwise noted

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V
Average Forward Rectified Current	$I_{F(AV)}$	30	A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	$I_{FSM}$	250	A
Operating Junction Temperature Range	$T_J$	-55 to +175	°C
Storage Temperature Range	$T_{STG}$	-55 to +175	°C

### ELECTRICAL CHARACTERISTICS

$T_A=25^\circ\text{C}$  unless otherwise noted

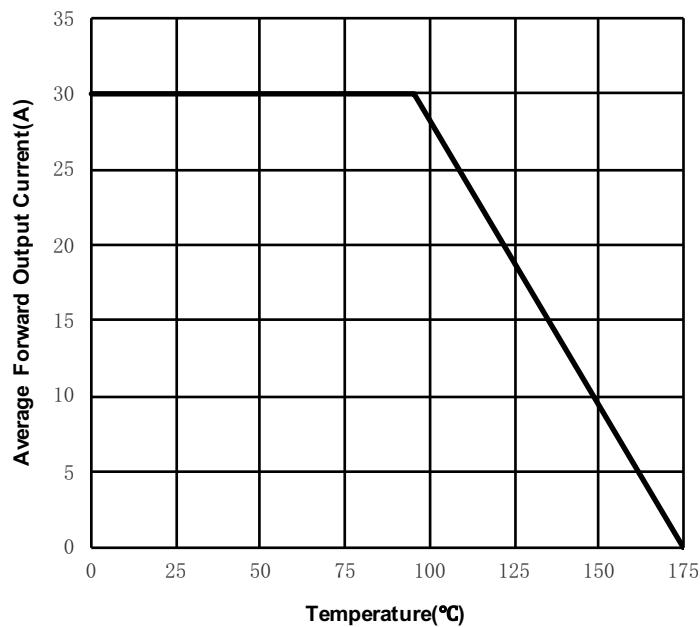
Parameter	Test Conditions	Symbol	Value		Unit
			Typ.	Max.	
Forward Voltage@ $I_F=15\text{A}$	$T_A=25^\circ\text{C}$	$V_F$	0.84	0.89	V
	$T_A=125^\circ\text{C}$		0.76	0.8	V
Reverse Current @ $V_{RRM}$	$T_A=25^\circ\text{C}$	$I_R$	1	10	uA
	$T_A=125^\circ\text{C}$		0.6	5	mA
Typical Thermal Resistance TO-220AB ITO-220AB TO-263AB		$R_{\theta JC}$	2 4 2		°C/W

## 30A, 200V Low Forward Voltage Schottky Rectifiers

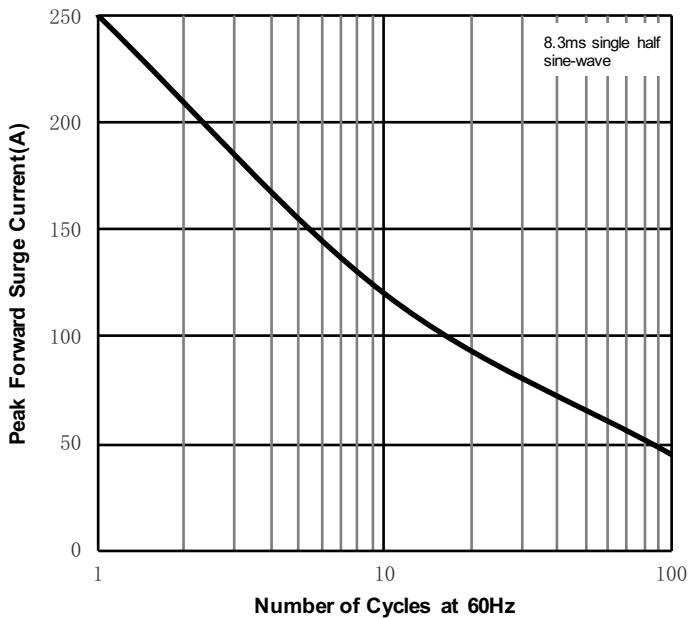
### RATINGS AND CHARACTERISTIC CURVES

$T_A=25^\circ\text{C}$  unless otherwise noted

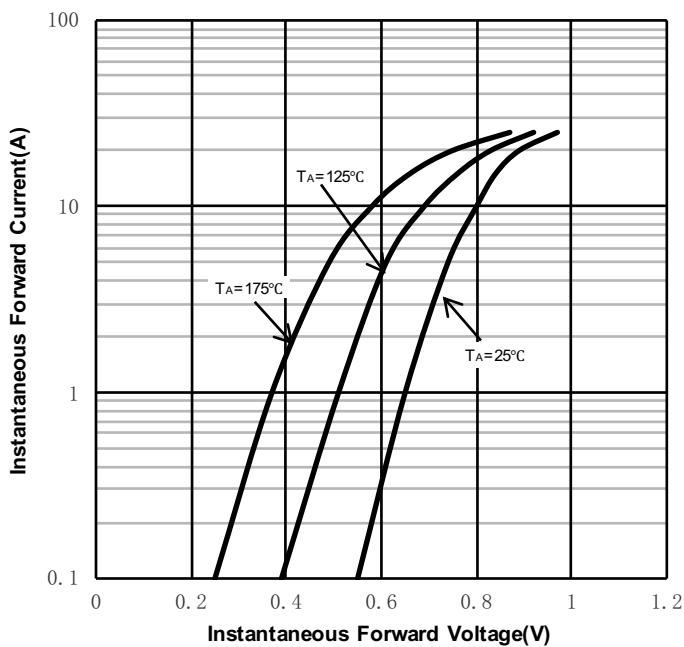
**FIG.1: Forward Output Current Derating Curve**



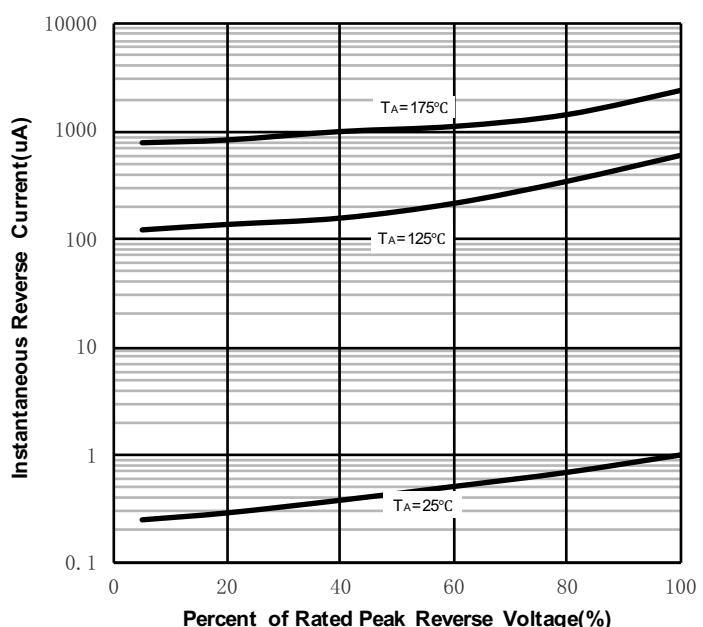
**FIG.2: Maximum Non-Repetitive Peak Forward Surge Current**



**FIG.3: Typical Forward Characteristics**



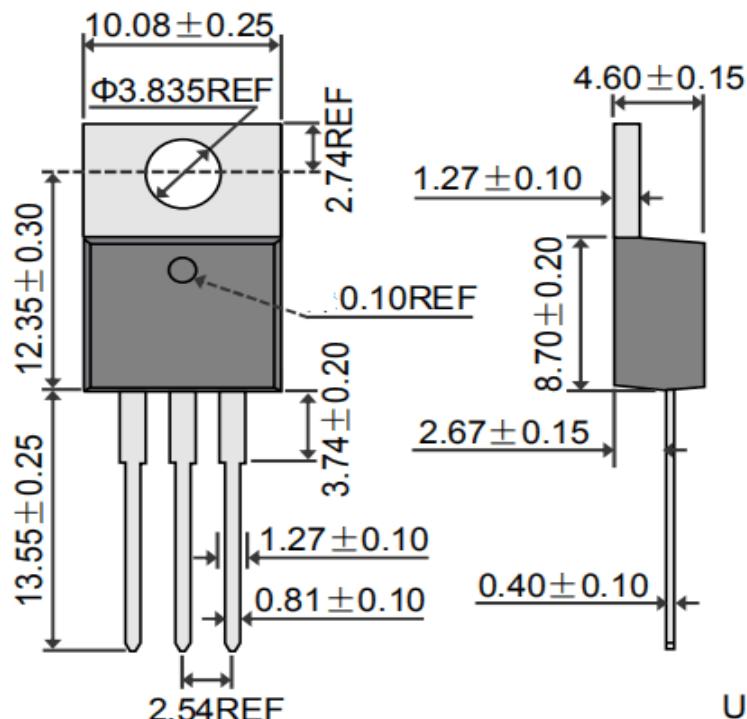
**FIG.4: Typical Reverse Characteristics**



## **30A, 200V Low Forward Voltage Schottky Rectifiers**

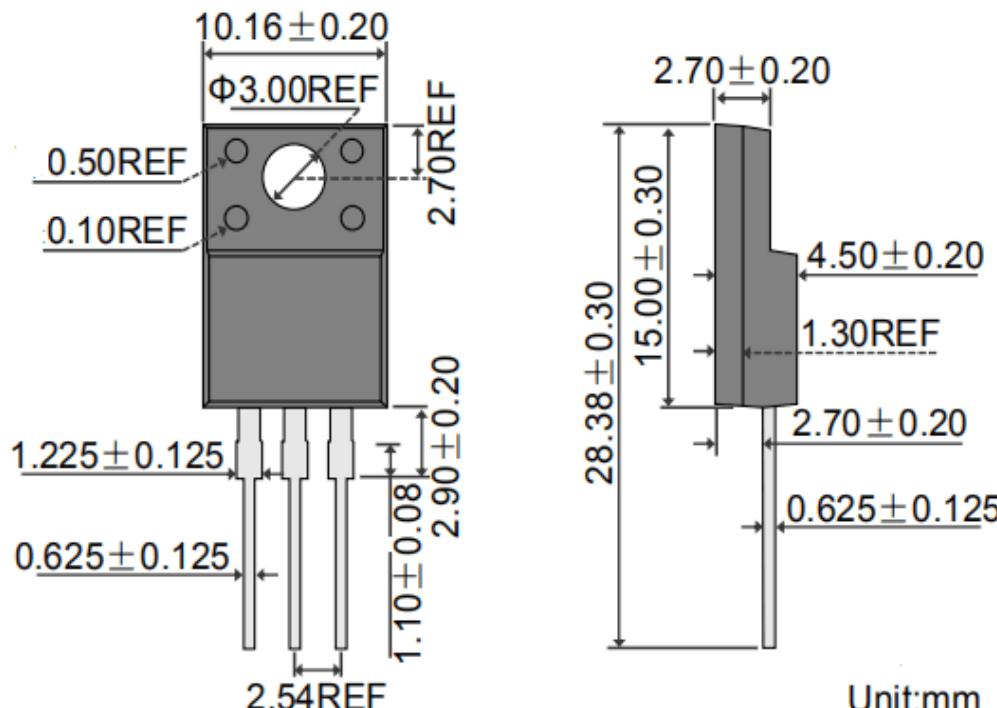
### **PACKAGE OUTLINE DIMENSIONS**

**TO-220AB**



Unit:mm

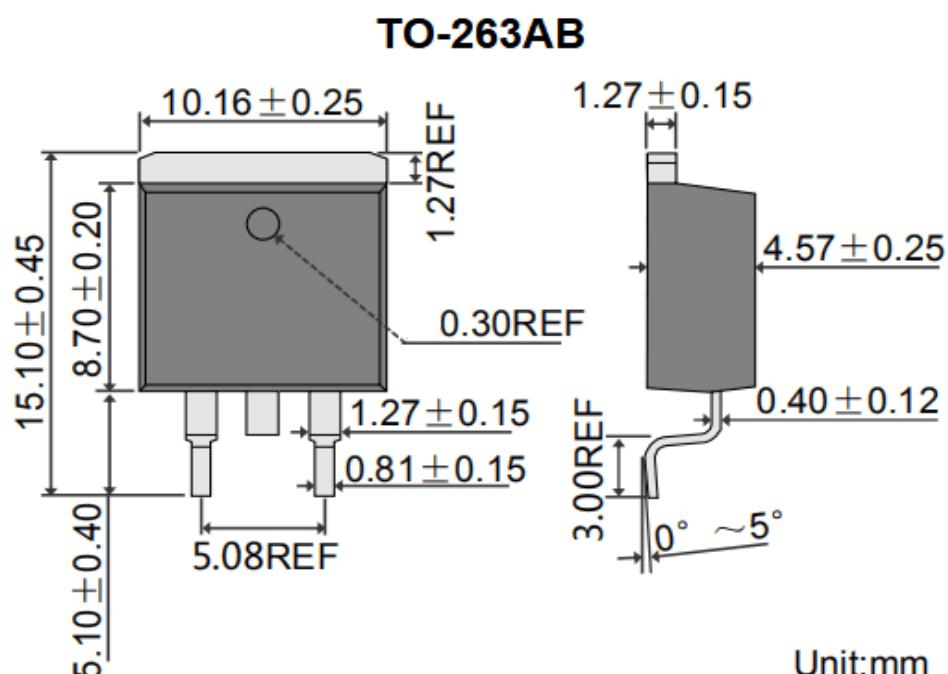
**ITO-220AB**



Unit:mm

## **30A, 200V Low Forward Voltage Schottky Rectifiers**

### **PACKAGE OUTLINE DIMENSIONS**



### **PACKING INFORMATION**

Package	Tube(PCS)	Inner Box(PCS)	Carton(PCS)
TO-220AB	50	1,000	5,000
ITO-220AB	50	1,000	5,000
TO-263AB	50	1,000	5,000