

Schottky Barrier Rectifier

Reverse Voltage - 300 V

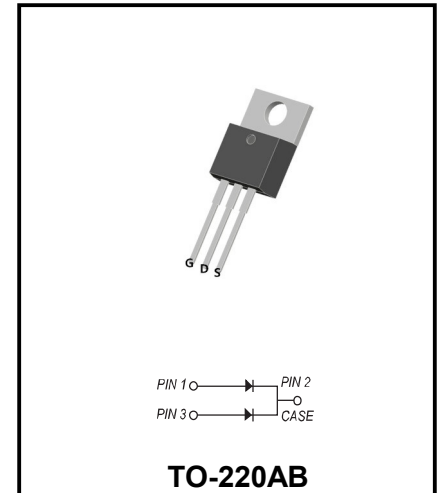
Forward Current - 20 A

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed
260°C /10 seconds at terminals

Mechanical Data

- ◆ Case : Molded plastic body
- ◆ Terminals : Solder plated, solderable per
MIL-STD-750, Method 2026
- ◆ Polarity : Polarity symbol marking on body
- ◆ Mounting Position : Any



Primary Characteristic

$I_{(AV)}$	20A
V_{RRM}	300V
I_{FSM}	150A
V_F	0.93V
$T_J \text{ Max}$	150°C

Maximum Ratings (Ta=25 unless otherwise specified)

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	300	V
Working Peak Reverse Voltage	V_{RWM}	210	V
Maximum DC Blocking Voltage	V_{DC}	300	V
Maximum average forward rectified current at $T_c=110^\circ\text{C}$	$I_{(AV)}$	20 10	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	150	A
Operating Temperature Range	T_J	-50 ~ +150	°C
Storage Temperature Range	T_{STG}	-50 ~ +150	°C
Typical Thermal Resistance	$R_{\theta JA}/ R_{\theta JC}$	2.0	°C/W

Electrical Characteristics (Ta=25°C unless otherwise specified)

Characteristics	Symbols	Typ	Max	Units
Maximum instantaneous forward voltage per diode at 10.0A	V_F	0.93	0.98	V
Maximum DC reverse current at rated DC blocking voltage	I_R	0.5	50	uA
		1	10	mA

Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

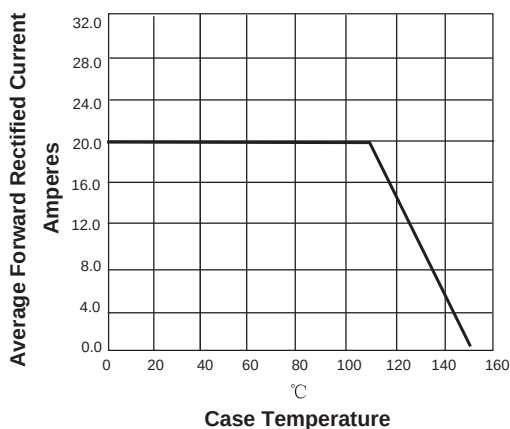


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

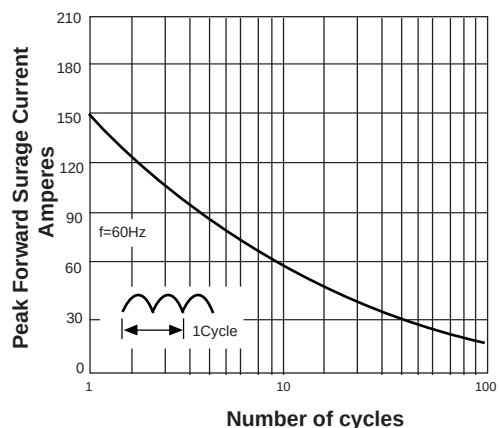


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

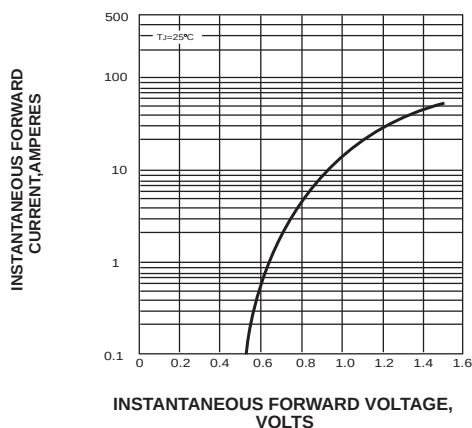
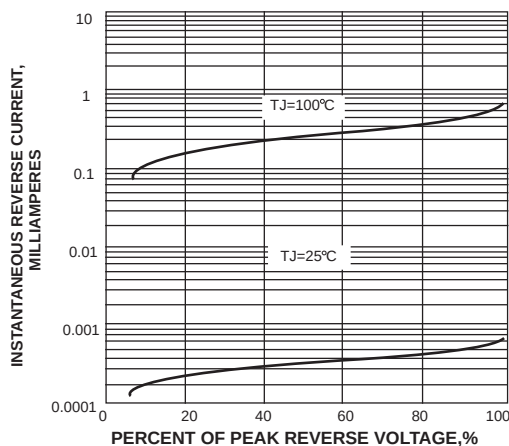
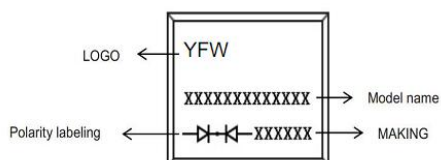


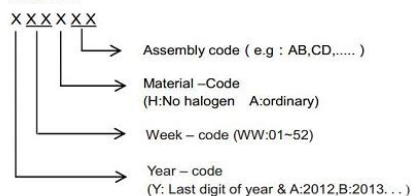
FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking On The Body



MAKING:



Ordering information

Part Number	Package	Base Quantity	Delivery mode
SRT20L300CT	TO-220AB	50pcs / tube	1000pcs/box 5000pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

TO-220AB

