

Schottky Barrier Rectifiers

Reverse Voltage - 300 V

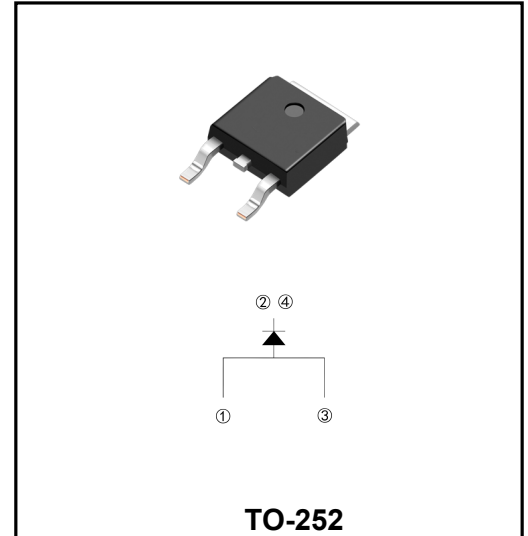
Forward Current - 10 A

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low forward voltage
- ◆ 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)	10A
V_{RRM}	300V
I_{FSM}	150A
V_F	0.93V
T_J Max	150°C

Maximum Ratings (Ta=25°C 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 °C	I_(AV)	10	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Operating Temperature Range	T_J	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C
Typical Thermal Resistance	R_{θJC}	4.5	°C/W

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

Characteristics	Symbols	Value		Units
Forward Voltage Drop		Typ	Max	V
Maximum instantaneous forward voltage at 5.0A at 10.0A	V_F	0.83 0.93	0.88 0.98	
Maximum DC reverse current at rated DC blocking voltage	I_R	T _A =25 °C T _A =100 °C	0.5 1	u A mA

Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

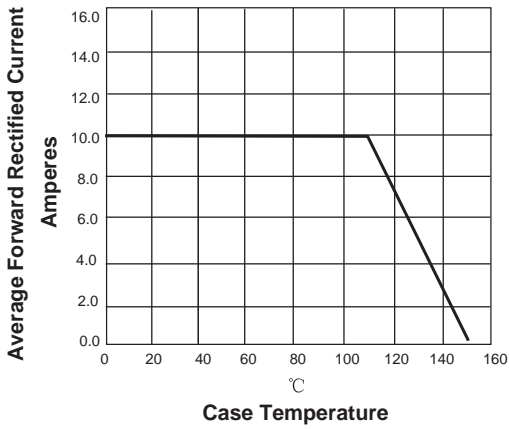


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

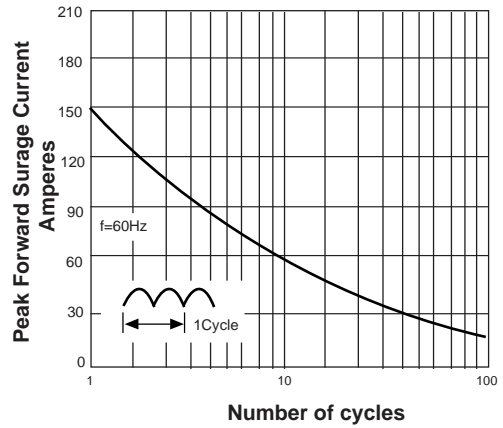


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

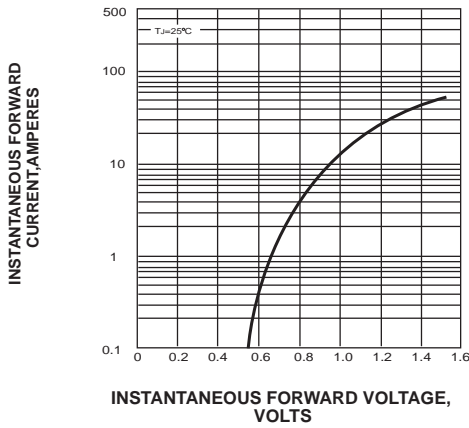
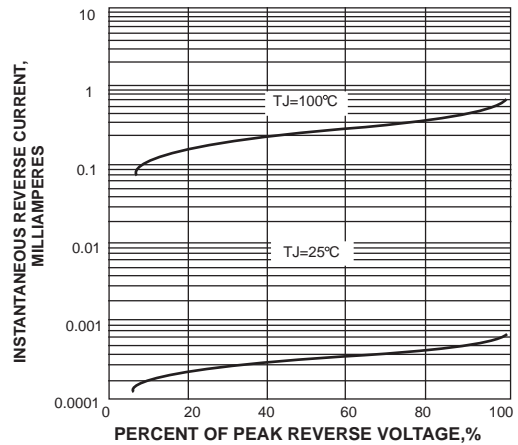
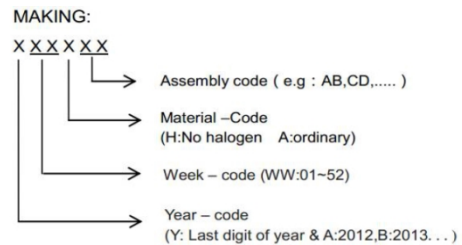
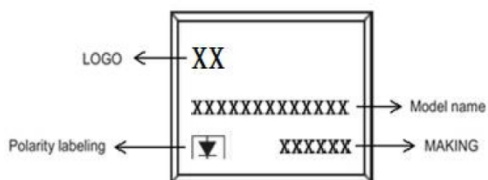


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking On The Body



Ordering Information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
SRT10L300SCS	TO-252	0.0110z(0.32g)	2500 pcs/reel	5000pcs/box 25000pcs/carton

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

Package Outline Dimensions Millimeters

TO-252

