TECH PUBLIC
台舟电子

TPBSS14A-TPBSS120A Series

Schottky Barrier Rectifier

www.sot23.com.tw

Features

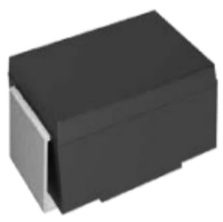
- Low forward voltage drop
- Guarding protection
- Glass passivated junction
- High current capability
- High efficiency operation
- Extremely low thermal resistance
- Halogen free and RoHS compliant

Mechanical Data

- Case: SMA molded plastic
- Polarity: Color band denotes cathode end
- Mounting position: ANY
- Weight: 0.0025 ounces, 0.071 gram

Ordering Information

- Shipping Qty:5000/7inch Tape& Reel



SMA



Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	TPBSS14A	TPBSS16A	TPBSS110A	TPBSS120A	UNITS
	Marking	SS14	SS16	SS110	SS120	
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	100	200	V
Maximum RMS voltage	V_{RWS}	28	42	70	140	V
Maximum DC blocking voltage	V_{DC}	40	60	100	200	V
Maximum average forward rectified current at T_L=90℃	$I_{F(AV)}$	1.0				A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	30				A
Maximum instantaneous forward voltage at I_{FM}=1.0A (NOTE1)	V_F	0.55	0.70	0.85	0.95	V
Maximum DC reverse current T_J=25℃ at rated DC blocking voltage T_J=125℃	I_R	0.5 50.0		0.1 10.0		m A
Maximum thermal resistance	$R_{\theta JL}$	80				°C/W
Operating temperature range	T_J	-55 ---- +125				°C
Storage temperature range	T_{STG}	-55 ---- +150				°C

Typical Electrical Characteristic Curves

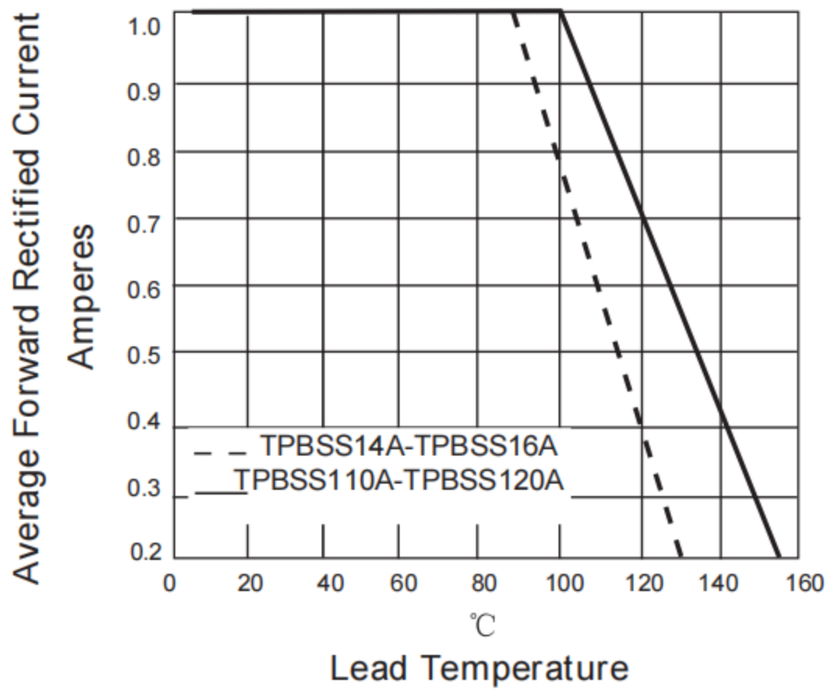


FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

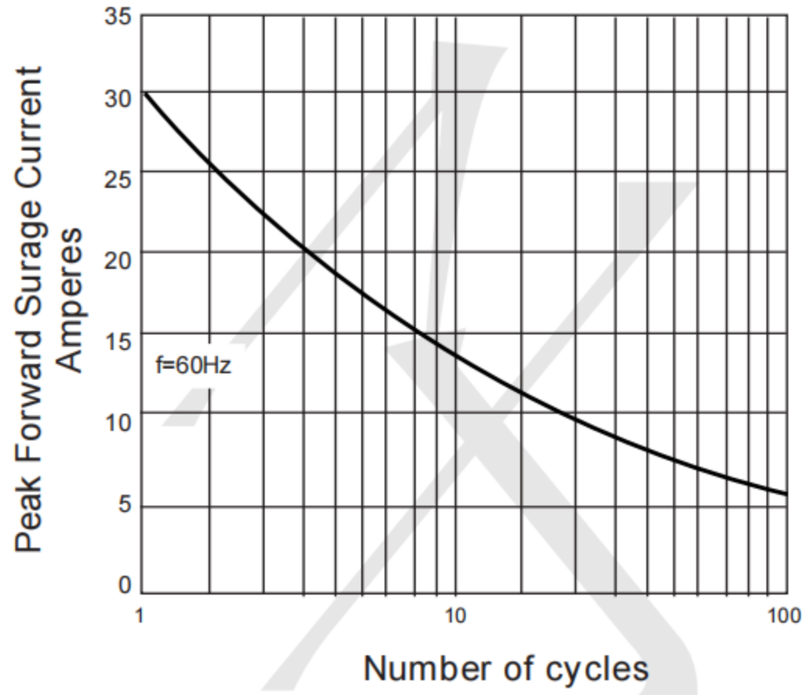


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

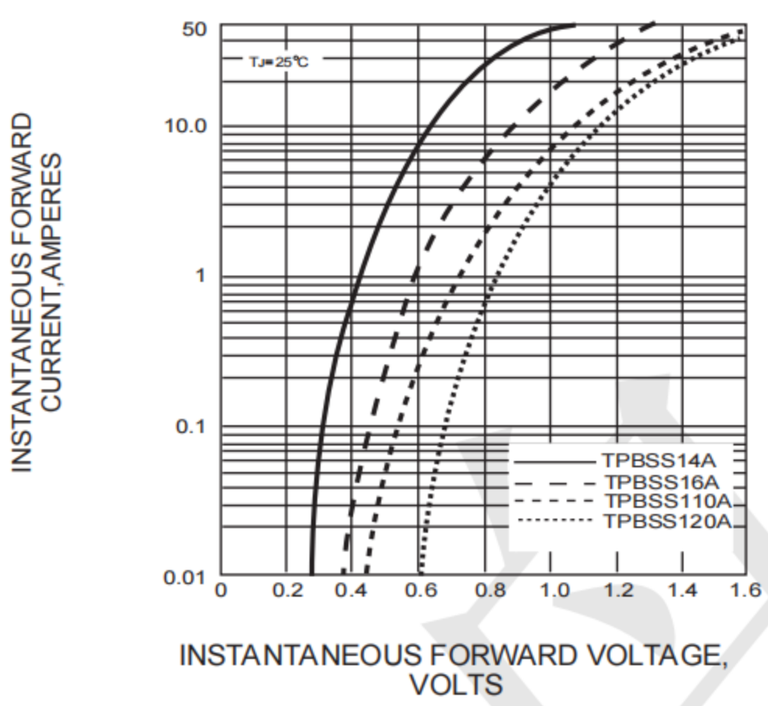


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

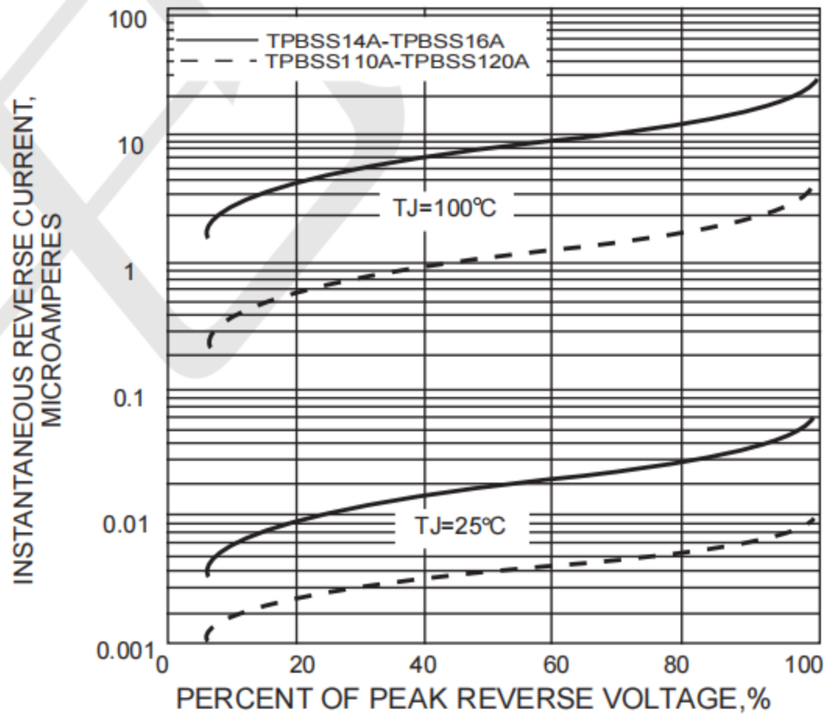
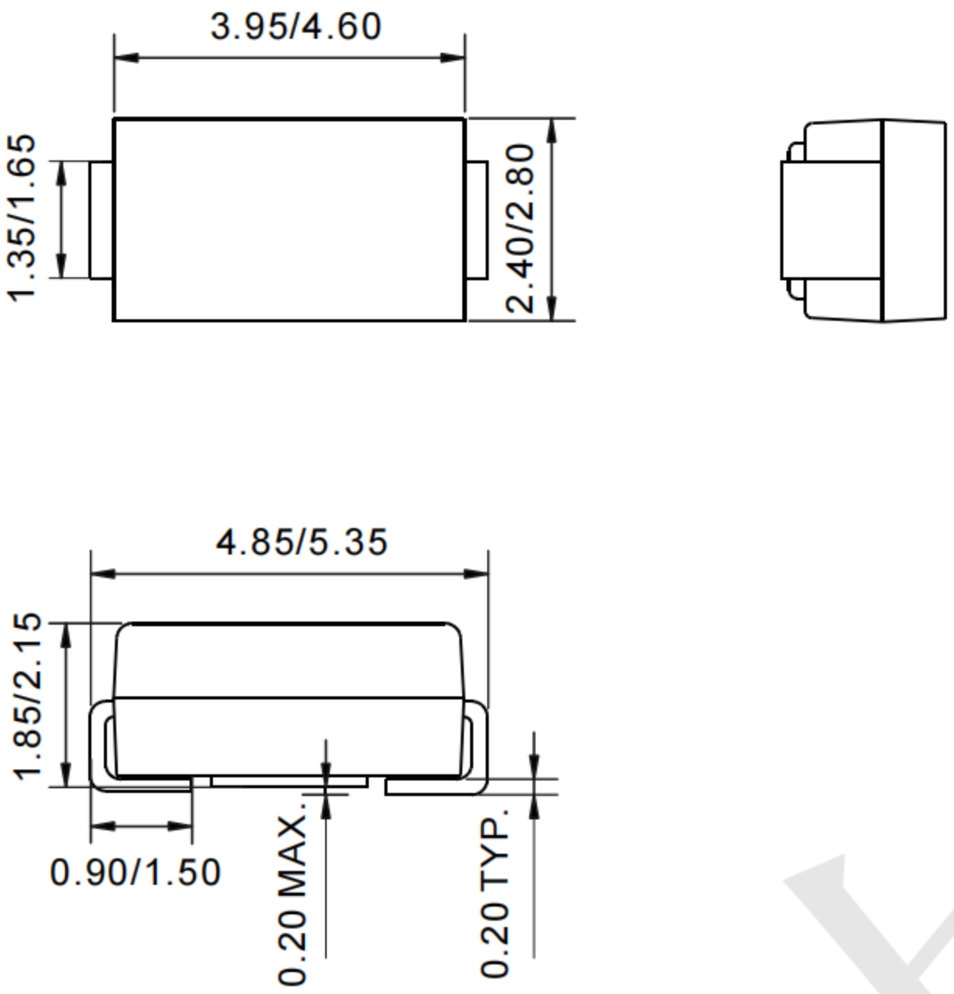


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Outline Drawing - SMA(DO-214AC) (Unit: mm)



Mounting Pad Layout-SMA(DO-214AC) (Unit: mm)

