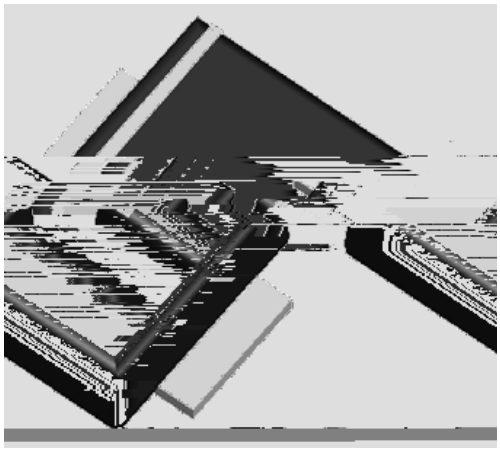
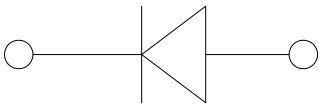
SSL34BF THRU SSL310BF

RoHS
COMPLIANT





Typical Applications

For use in low voltage high frequency inverters, freewheeling, C/DC converters, and polarity protection applications.

Mechanical Data

- **Package**: SMBF
  Molding comMuLc94cV-ъcvdam ĸ ғ

		UNIT	SSL34BF	SSL345BF	SSL36BF	SSL310BF
Device marking code			SSL34BF	SSL345BF	SSL36BF	SSL310BF
Repetitive peak reverse voltage	V_{RRM}	V	40	45	60	100
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	I_O	A	3.0			
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Ta=25	I_{FSM}	A	60			
Storage temperature	T_{stg}		-55 ~+150			
Junction temperature	Tj		-55 ~+150			

■Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SSL34BF	SSL345BF	SSL36BF	SSL310BF
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=3.0A	0.45		0.50	0.60
Maximum DC reverse current at rated DC blocking voltage per diode @ $V_{RM}=V_{RRM}$	I_{RRM}	mA	Ta=25	0.5			0.1
			Ta=100	10			5

Note1:Pulse test:300uS pulse widh,1% duty cycle

Note2:Pulse test:pulse widh 40mS

■Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	SSL34BF	SSL345BF	SSL36BF	SSL310BF
Typical Thermal Resistance(1)	RθJ-A	/W	58			
	RθJ-L		20			
	RθJ-C		15			

Note:

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad area■

■Characteristics(Typical)

FIG1 Io-TL Curve

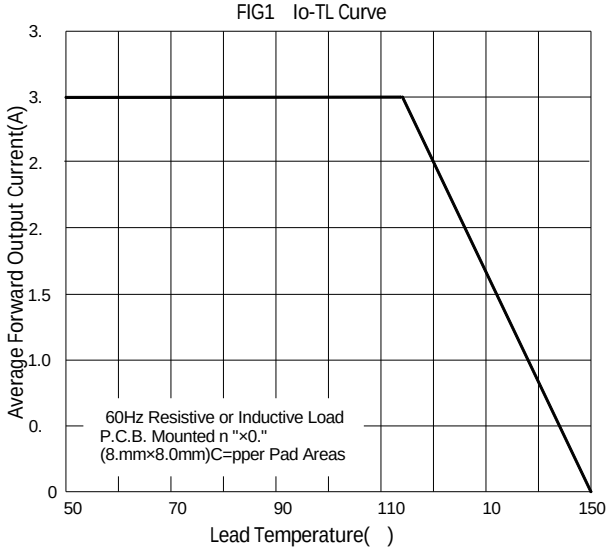


FIG2 Surge Forward Current Capability

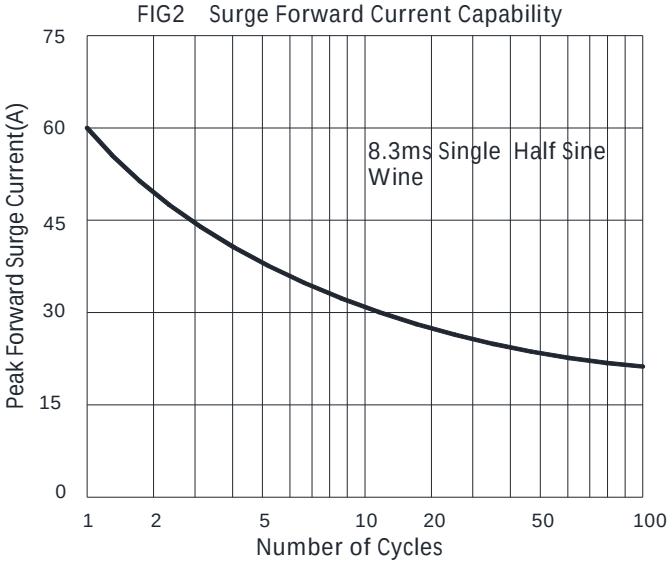
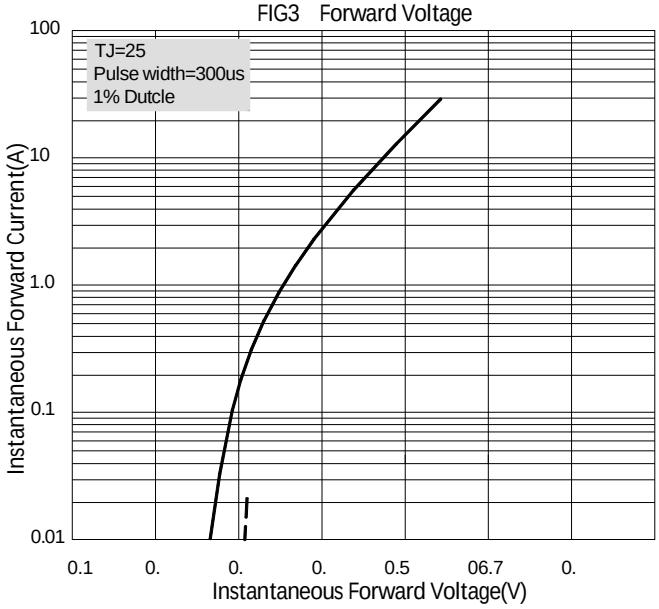
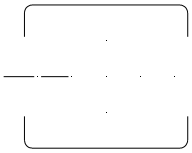


FIG3 Forward Voltage



SMBF



Dimensions in millimeters