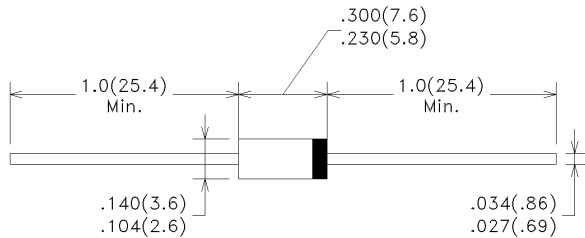


Package Outline Dimensions in mm (inches) DO-15



Reverse Voltage - 50 ~ 800 V

Forward Current - 2.0 A

Features

- High reliability
- Low forward voltage drop
- Ultrafast Recovery times for high efficiency
- Low leakage current
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Typical Applications

- For use in switching power Supplies.

Mechanical Data

- Case:DO-15 Plastic Package
- Polarity:Color band denotes cathode end

Maximum ratings

Ratings at TA=25°C (unless otherwise specified)

Parameter	Symbol	SF21	SF24	SF26	SF28	SF29	Unit
Maximum recurrent peak reverse voltage	VRRM	50	200	400	600	800	V
Maximum RMS voltage	VRMS	35	140	280	420	560	V
Maximum DC blocking voltage	VDC	50	200	400	600	800	V
Maximum average forward rectified current	IF(AV)	2.0					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	50					A
Storage temperature range	TS	-55 ~ 150					°C
Operating Junction temperature range	Tj	-55 ~ 150					°C
Thermal Resistance	RthJA	65					°C /W

Electrical characteristics

Ratings at TA=25°C (unless otherwise specified)

Ratings at TA = 25°C (unless otherwise specified)								
Parameter	Test Conditions	Symbol	SF21	SF24	SF26	SF28	SF29	Unit
Maximum forward voltage	IF=2.0 A	VF	0.95	0.95	1.25	1.70	2.50	V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	5.0					μA
	TA=125°C		100					
Maximum Reverse Recovery Time	RG1	Trr	35					ns

Typical Characteristics

Fig.1 Maximum Average Forward Current Rating

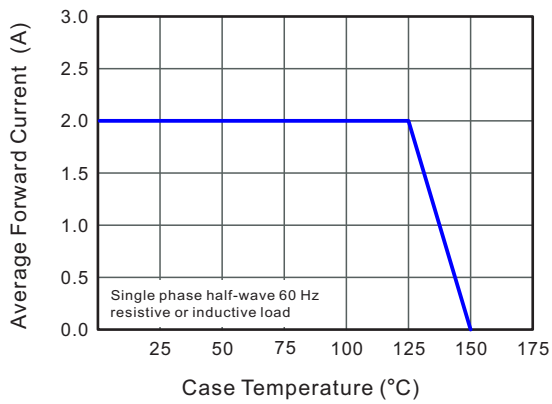


Fig.2 Typical Reverse Characteristics

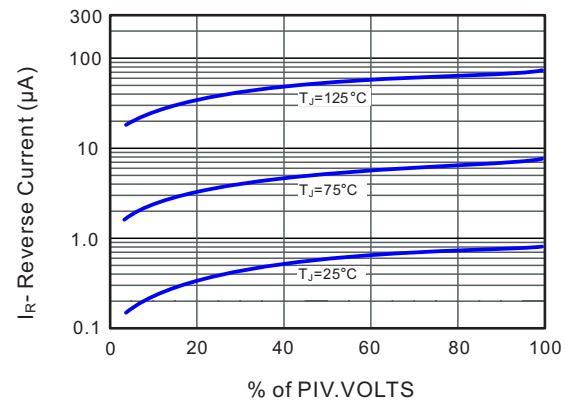


Fig.3 Typical Forward Characteristics

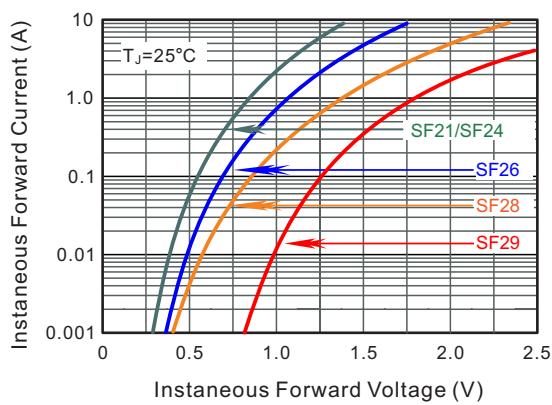


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

