

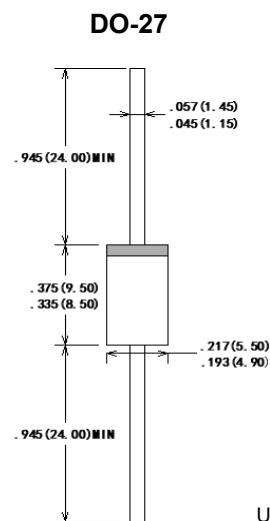
Axial Lead Schottky Barrier Diode

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260°C/10 seconds, 9.5mm lead length
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking

Mechanical Data

- Case: DO-27 Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free



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

Parameter	Symbol	TSR540L	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	40	V
Maximum RMS voltage	V _{RMS}	28	V
Maximum DC blocking voltage	V _{DC}	40	V
Maximum average forward rectified current	I _{F(AV)}	5.0	A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	125	A
Maximum forward voltage@I _F =5.0A	V _F	0.45	V
Maximum reverse current @V _{DC}	I _R	TA= 25°C 0.1	mA
		TA= 100°C 20	
Typical thermal resistance (Note 1)	R _{θJA}	54	°C/W
Type junction capacitance V _R =4.0V,f=1MHz	C _J	320	pF
Operating junction temperature rang	T _J	-55 ~ +125	°C
Storage temperature rang	T _{STG}	-55 ~ +150	°C

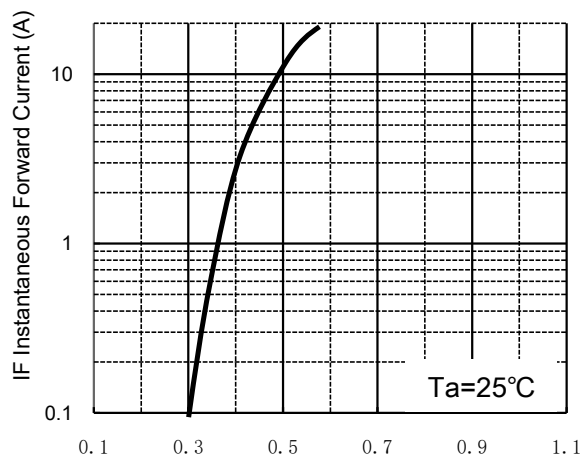
Note:

1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.



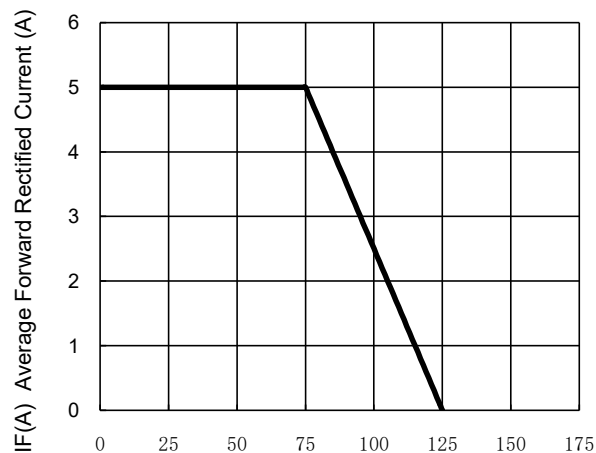
Characteristic Curves

Typical Forward Characteristic



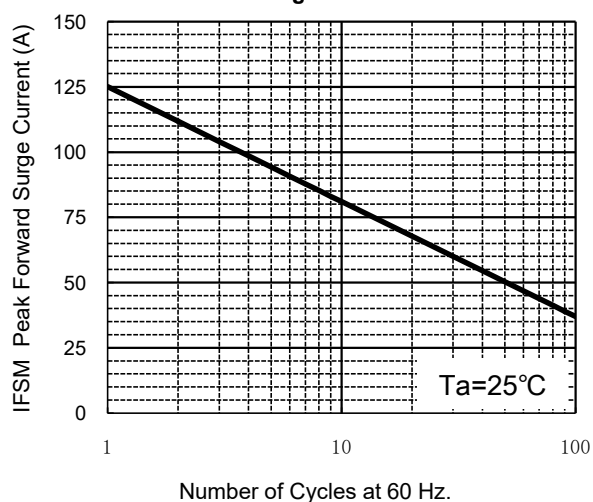
VF Instantaneous Forward Voltage (V)

Forward Current Derating Curve



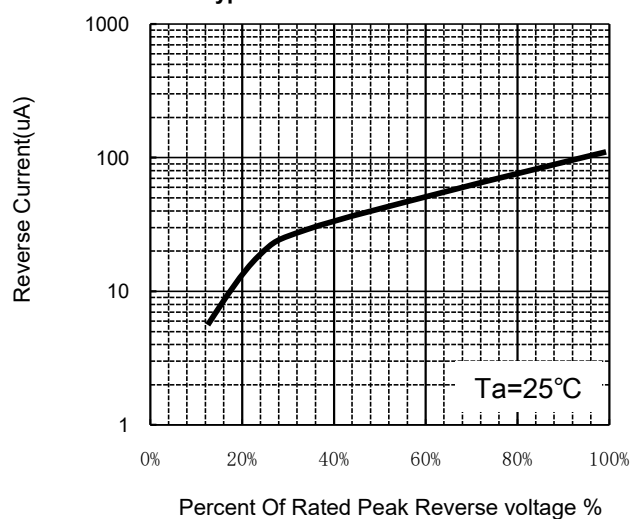
Tamb, ambient temperature ($^\circ\text{C}$)

Maximum Non Repetitive Peak
Forward Surge Current



Number of Cycles at 60 Hz.

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %