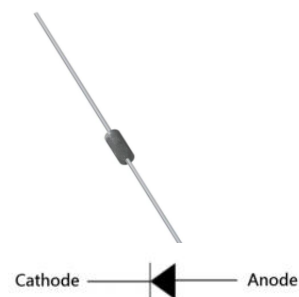


Features

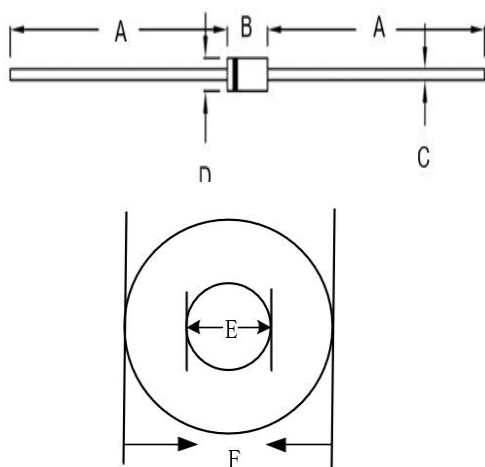
- ◆ Glass passivated chip junction
- ◆ High current capability, Low VF
- ◆ High reliability
- ◆ High surge current capability
- ◆ Low power loss, high efficiency
- ◆ RoHS Compliant
- ◆ Halogen-free
- ◆ Polarity: Cathode Band or Cathode Notch



Applications

- ◆ DC to DC converter
- ◆ Switching mode converters and inverters
- ◆ General purpose

Dimensions (DO-204AL/DO-41)



Symbol	Dimension	
	Millimeters	
	Min.	Max.
A	26.7	-
B	4.98	5.02
C	0.71	0.86
D	2.00	2.70
E	0.675	0.685
F	2.58	2.60

Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	MUR120	Unit
Repetitive peak reverse voltage	V_{RRM}	200	V
RMS Reverse voltage	$V_{R(RMS)}$	140	V
Forward current	I_F	1	A
Forward Voltage@1A	V_F	0.875	V
Leakage Current@ V_{RRM}	I_R	2	μA
Reverse Recovery Time(Note1)	T_{RR}	25	ns
Surge peak forward current, 8.3ms single half sine wave superimposed on rated load	I_{FSM}	35	A
Typical Junction Capacitance@4V 1MHZ	C_J	27	PF
Junction temperature	T_J	$-55\sim+150$	$^{\circ}\text{C}$
Junction-to-ambient thermal resistance	$R_{\theta JA}$	50	K/W
Storage temperature	T_{STG}	$-55\sim+150$	$^{\circ}\text{C}$

Note:

1.Measured with $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$.

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Figure 1. Forward Current Derating Curve

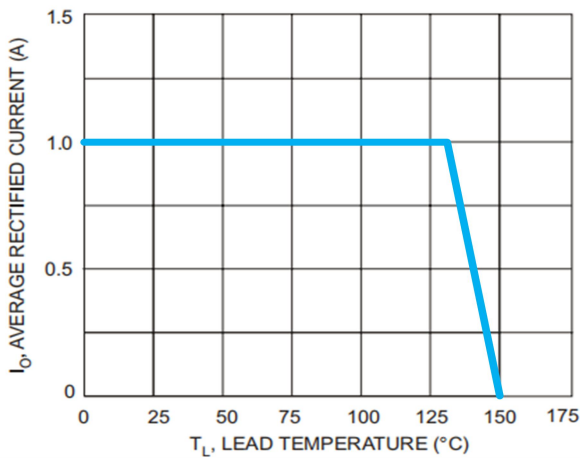


Figure 2. Typical Forward Characteristics

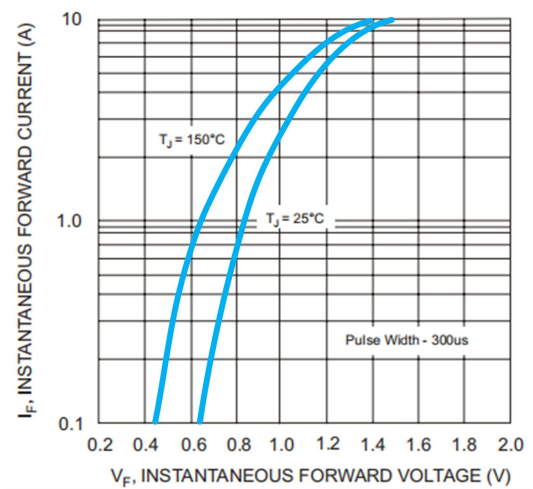


Figure 3. Surge Current Derating Curve

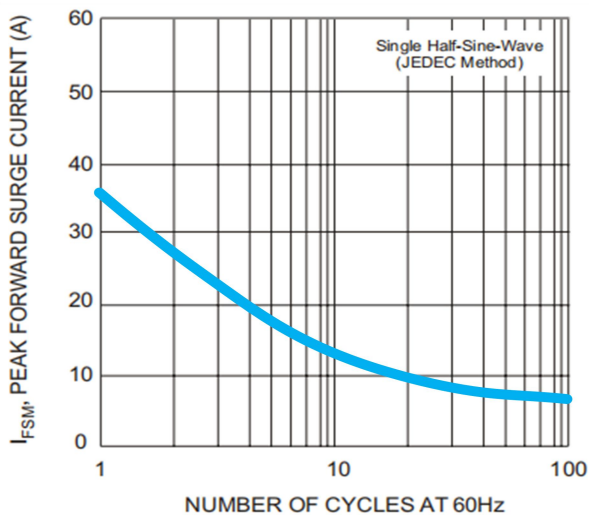


Figure 4. Typical Reverse Characteristics

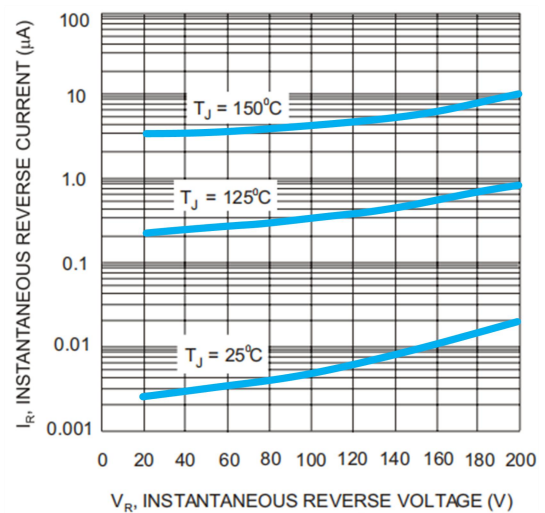
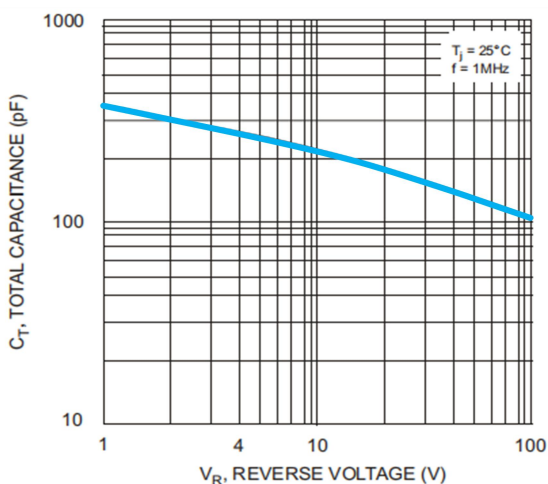


Figure 5. Typical Total Capacitance



Wave Soldering Parameters

