1.5A Fast Recovery Rectifier

Features

1. High current capability
2. Low reverse leakage current
3. Low forward voltage drop
4. Fast switching speed for high efficiency

Absolute Maximum Ratings

T_j=25℃

Parameter	Test Conditions	Type	Symbol	Value	Unit
Repetitive peak reverse voltage = Working peak reverse voltage = DC blocking voltage		FR151	V_{RRM} =V_{RWM} =V_R	50	V
		FR152		100	V
		FR153		200	V
		FR154		400	V
		FR155		600	V
		FR156		800	V
		FR157		1000	V
Peak forward surge current			I_{FSM}	50	A
Average forward current	T_A=55℃		I_{FAV}	1.5	A
Storage temperature range			T_{stg}	-65~+175	℃

Electrical Characteristics

T_j=25℃

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F=1.5A		V_F			1.3	V
Reverse current	T_A=25℃		I_R			5	μA
	T_A=100℃		I_R			100	μA
Maximum reverse recovery time	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A	FR151~FR154	T_{rr}			150	ns
		FR155	T_{rr}			250	ns
		FR156~FR157	T_{rr}			500	ns
Diode capacitance	V_R=4V, f=1MHz		C_D		20		pF

Characteristics (T_j=25℃ unless otherwise specified)

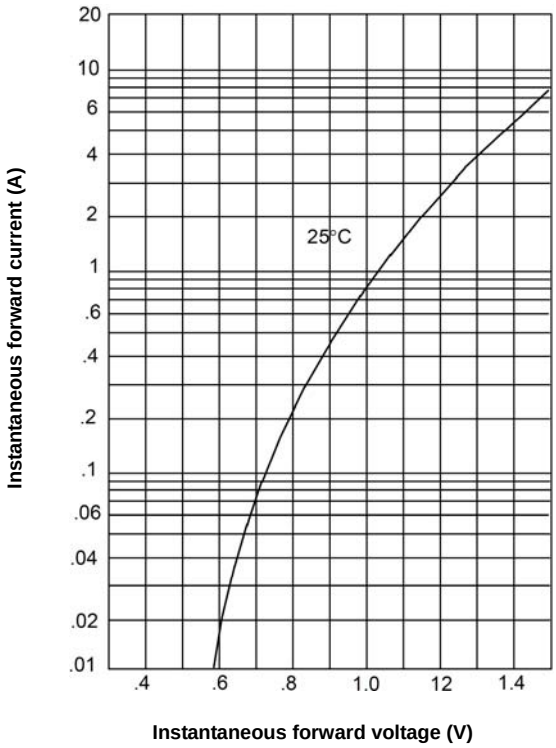


Figure 1. Typical forward characteristics

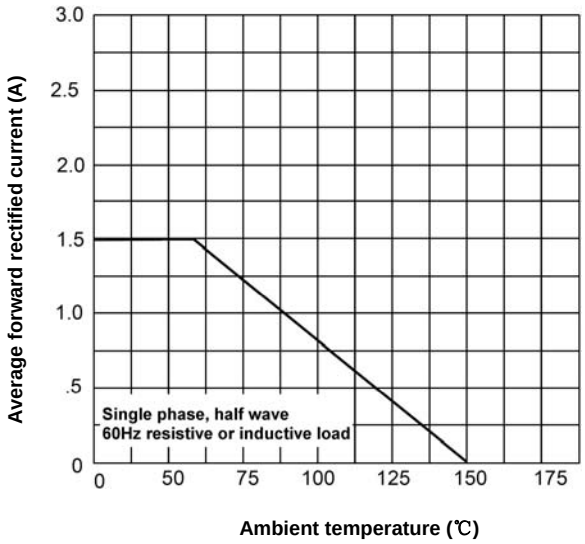


Figure 2. Forward derating curve

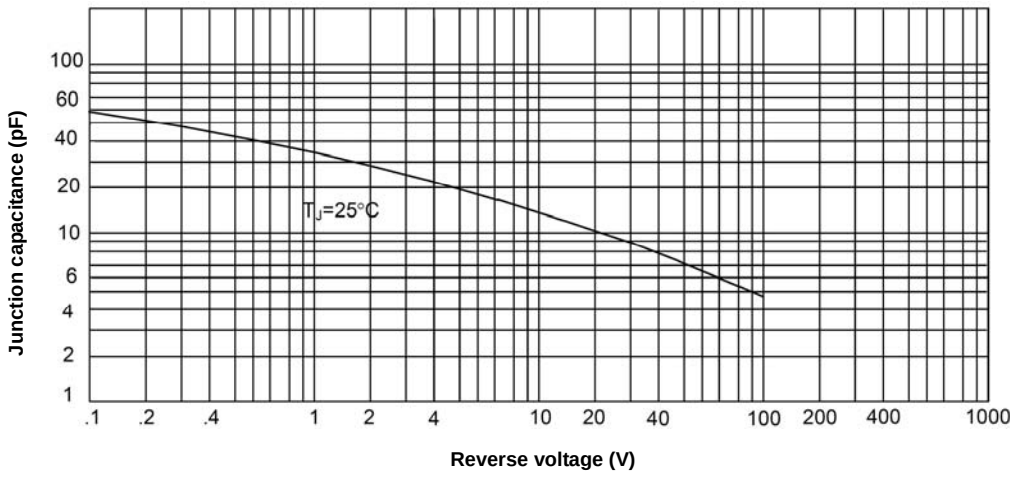
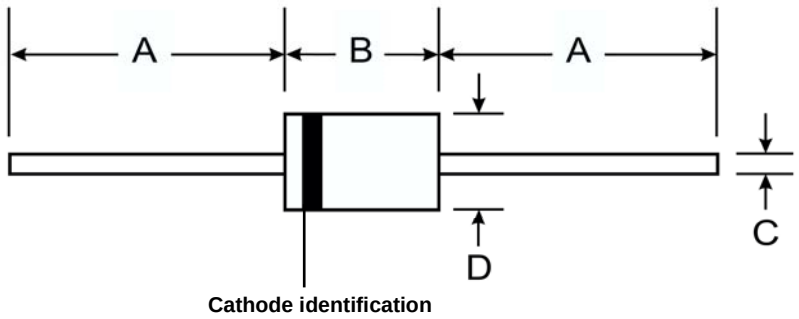


Figure 3. Junction capacitance

Dimensions in mm



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.000	---	25.40	---
B	0.230	0.300	5.80	7.60
C	0.026	0.034	0.70	0.90
D	0.104	0.140	2.60	3.60

Case: molded plastic DO-15
Polarity: cathode band
Marking: type number

Marking