

● **Applications**

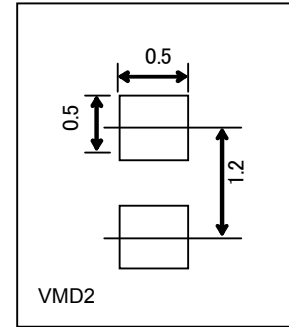
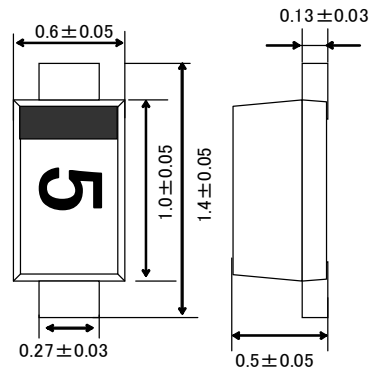
General rectification

● **Features**

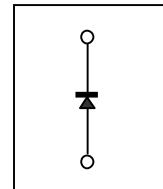
- 1) Small power mold type.(VMD2)
- 2) Low  $V_F$
- 3) High reliability

● **Construction**

Silicon epitaxial planar



● **Structure**



● **Absolute maximum ratings** ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	30	mA
Forward current surge peak (60Hz 1cyc)	$I_{FSM}$	200	mA
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$

● **Electrical characteristics** ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.37	V	$I_F=1\text{mA}$
Reverse current	$I_R$	-	-	0.5	$\mu\text{A}$	$V_R=30\text{V}$
Capacitance between terminals	$C_t$	-	2	-	pF	$V_R=1\text{V}$ , $f=1\text{MHz}$



**SUNNATE**

