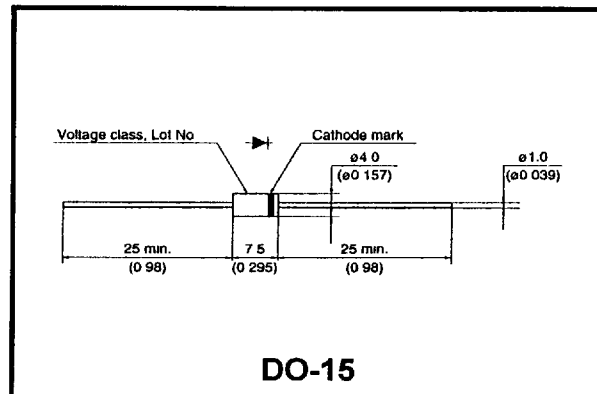


ERC38 (1A)

HIGH VOLTAGE SUPER HIGH SPEED

Outline Drawing



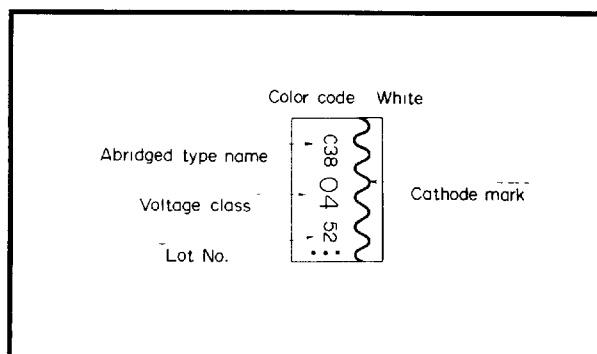
Features

- Low V_F
- Super high speed switching
- High voltage by mesa design
- High reliability

Applications

- High speed switching

Marking



Maximum Ratings & Characteristics

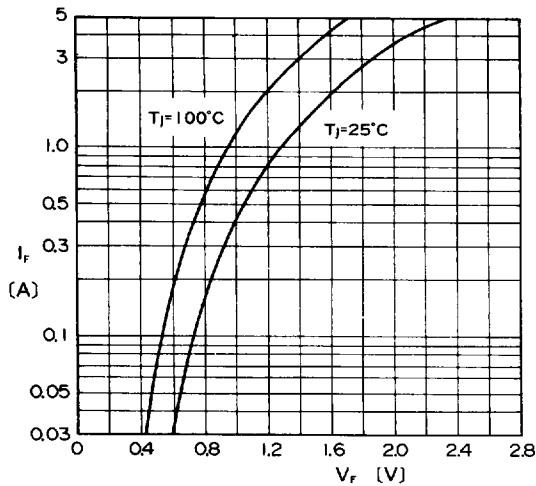
- Absolute Maximum Ratings

Items	Symbols	Conditions	Ratings			Units
			-04	-05	-06	
Repetitive Peak Reverse Voltage	V_{RRM}		400	500	600	V
Average Output Current	I_O	$T_A = 25^\circ\text{C}$, Sq. Wave, duty = 1/2	1			A
Surge Current	I_{FSM}	Sine Wave, 10ms	40			A
Operating Junction Temperature	T_J		-40 to +150			$^\circ\text{C}$
Storage Temperature	T_{stg}		-40 to +150			$^\circ\text{C}$

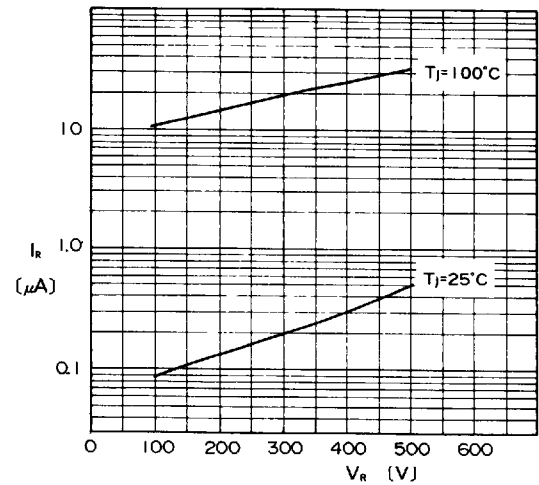
- Electrical Characteristics ($T_A = 25^\circ\text{C}$ Unless otherwise specified)

Items	Symbols	Conditions	Ratings	Units
Forward Voltage Drop	V_F	$I_F = 1\text{A}$	2.5	V
Reverse Current	I_R	$V_R = V_{RRM}$	50	μA
Reverse Recovery Time	t_r	$I_F = 0.1\text{A}$, $I_R = 0.2\text{A}$	50	ns

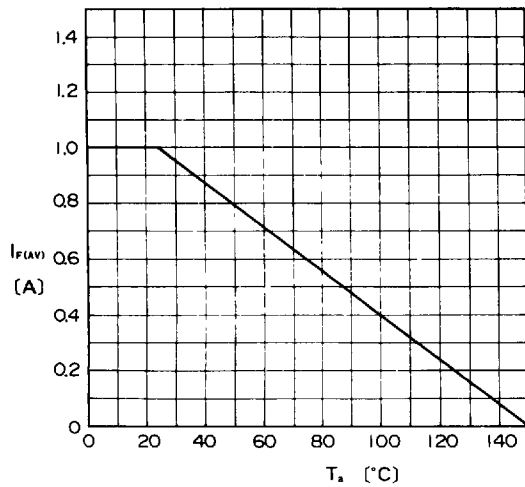
ERC38 (1A)



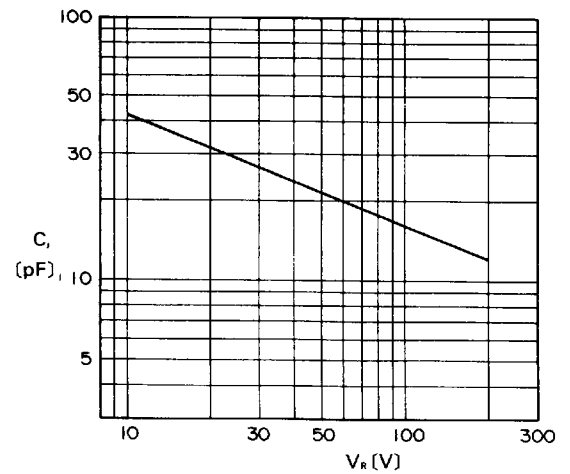
Forward Characteristics



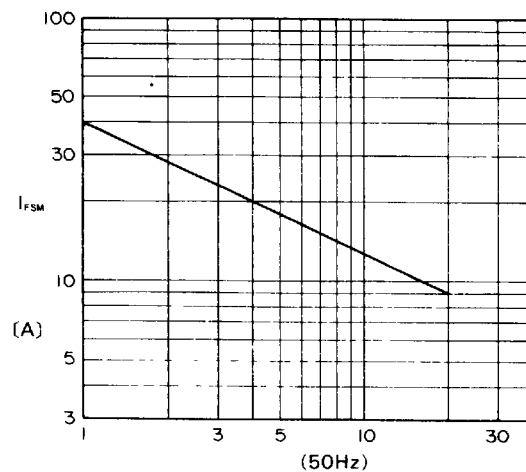
Reverse Characteristics



Current Derating ($I_{F(AV)} - T_J$)



Junction Capacitance Characteristics



Surge Capability

Collmer Semiconductor, Inc.
Phone: (214) 233-1589 - Fax: (214) 233-0481

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